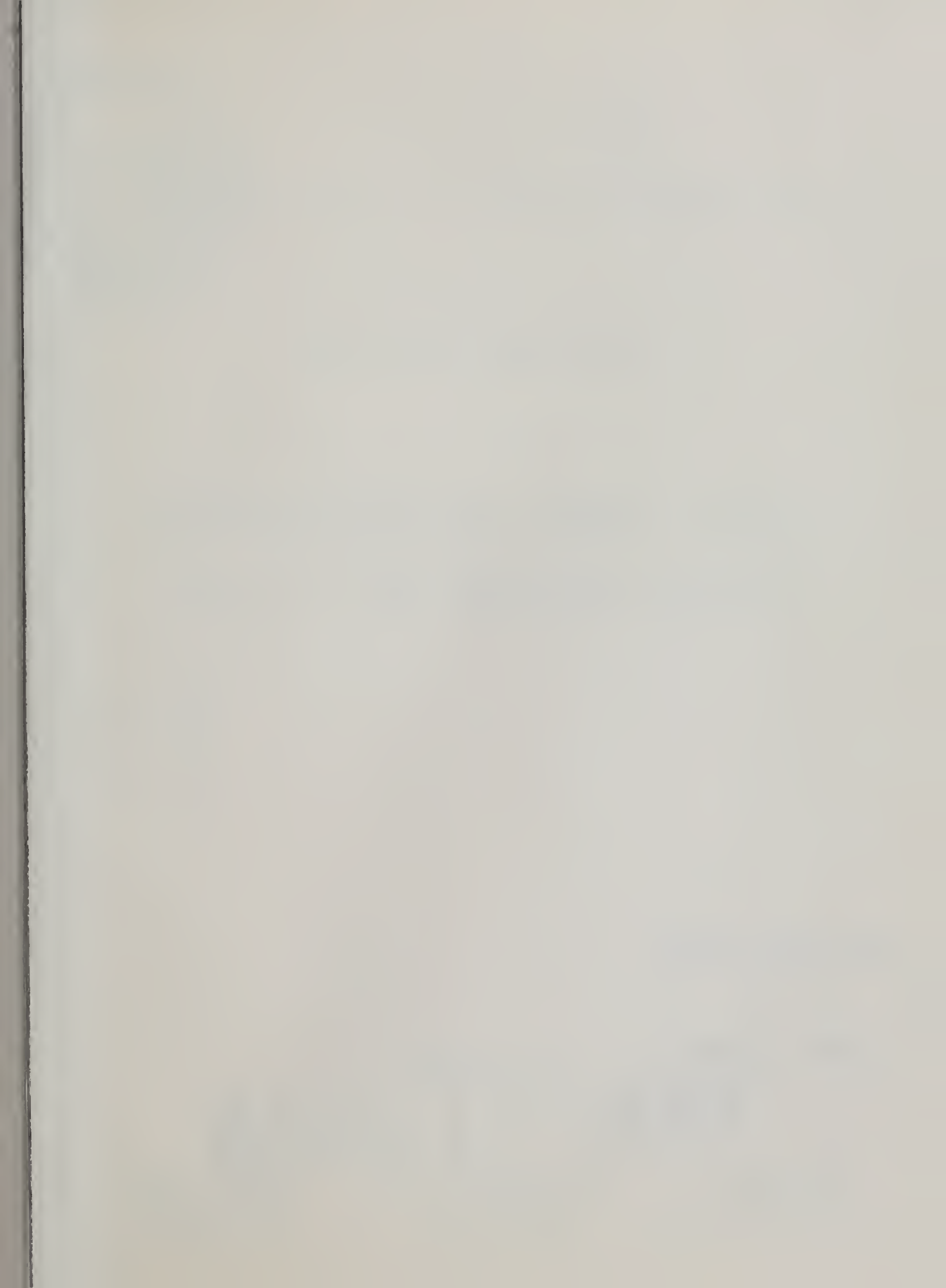




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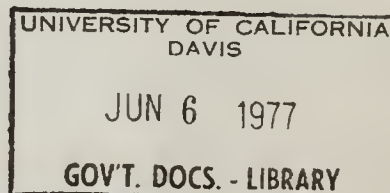
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Volume IV: SAN JOAQUIN VALLEY

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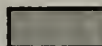
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AREAL COVERAGE OF VOLUMES**

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- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality

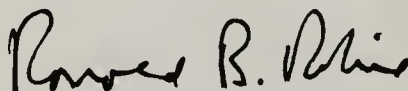
This Volume



## FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-74 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.



Ronald B. Robie, Director  
Department of Water Resources  
State of California

# METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Celsius (°C) = $(^{\circ}\text{F} - 32^{\circ}) \times 5/9$	

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2	Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951 and 1974
3	Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1974

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The Resources Agency  
Department of Water Resources

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CLAIRE T. DEDRICK, Secretary for Resources  
RONALD B. ROBIE, Director, Department of Water Resources  
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the direction of

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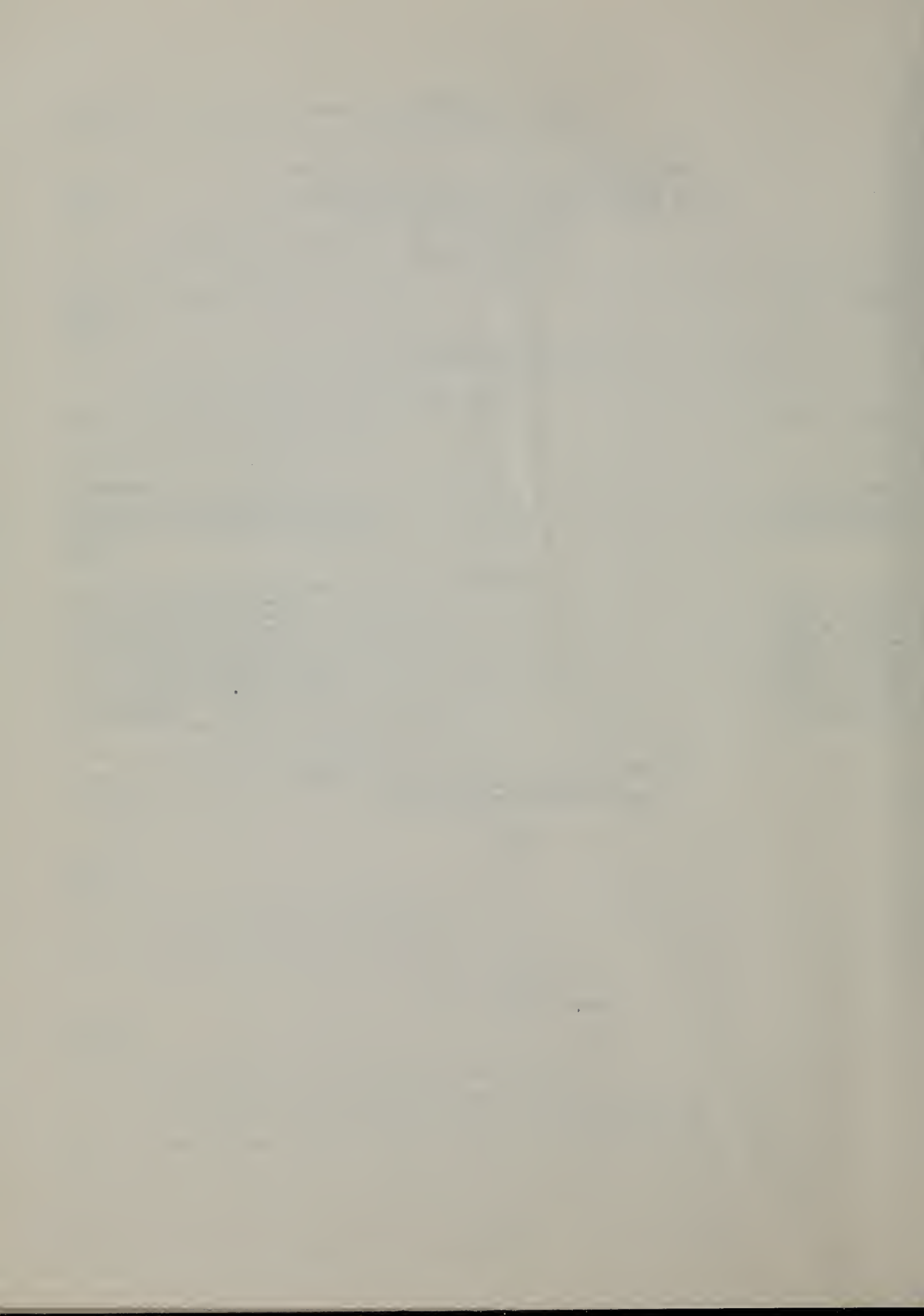
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Reviewed and coordinated by Division of Planning  
Environmental Quality Branch  
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City of Modesto  
Kern County Water Agency  
Kern County Canal and Water Company  
Buena Vista Water Storage District  
Modesto Irrigation District  
Turlock Irrigation District  
Oakdale Irrigation District  
Merced Irrigation District  
Fresno Irrigation District  
Kings River Water Association  
Central California Irrigation District  
Tule River Association  
Fresno County Health Department  
Kern County Health Department  
Tulare County Health Department  
Kern County Parks and Recreation Department

#### ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1973-74 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1974; profile of ground water levels; ground water areas; and well locations.

APPENDIX A  
CLIMATOLOGICAL DATA



## INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1973, to September 30, 1974, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 33 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 152 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

### HYDROGRAPHIC AREA B

#### SAN JOAQUIN RIVER BASIN

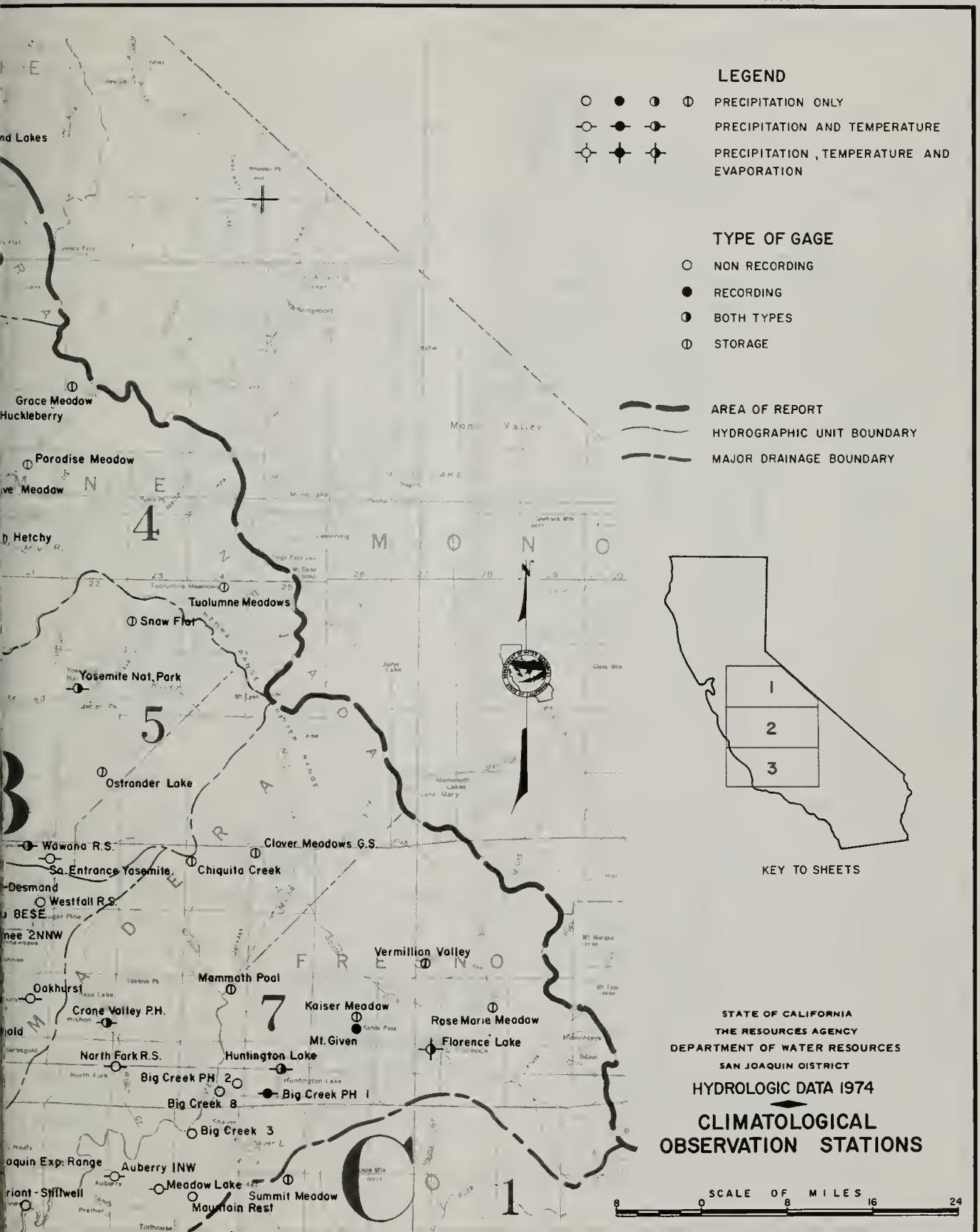
B0 - San Joaquin Valley Floor  
B3 - Stanislaus River  
B4 - Tuolumne River  
B5 - Merced River  
B6 - Fresno-Chowchilla Rivers  
B7 - San Joaquin River  
B8 - San Joaquin Valley on West Side

### HYDROGRAPHIC AREA C

#### TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor  
C1 - Kings River  
C2 - Kaweah River  
C3 - Tule River  
C4 - Greenhorn Mountains  
C5 - Kern River  
C6 - Tehachapi Mountains  
C7 - Tulare Lake Basin on West Side









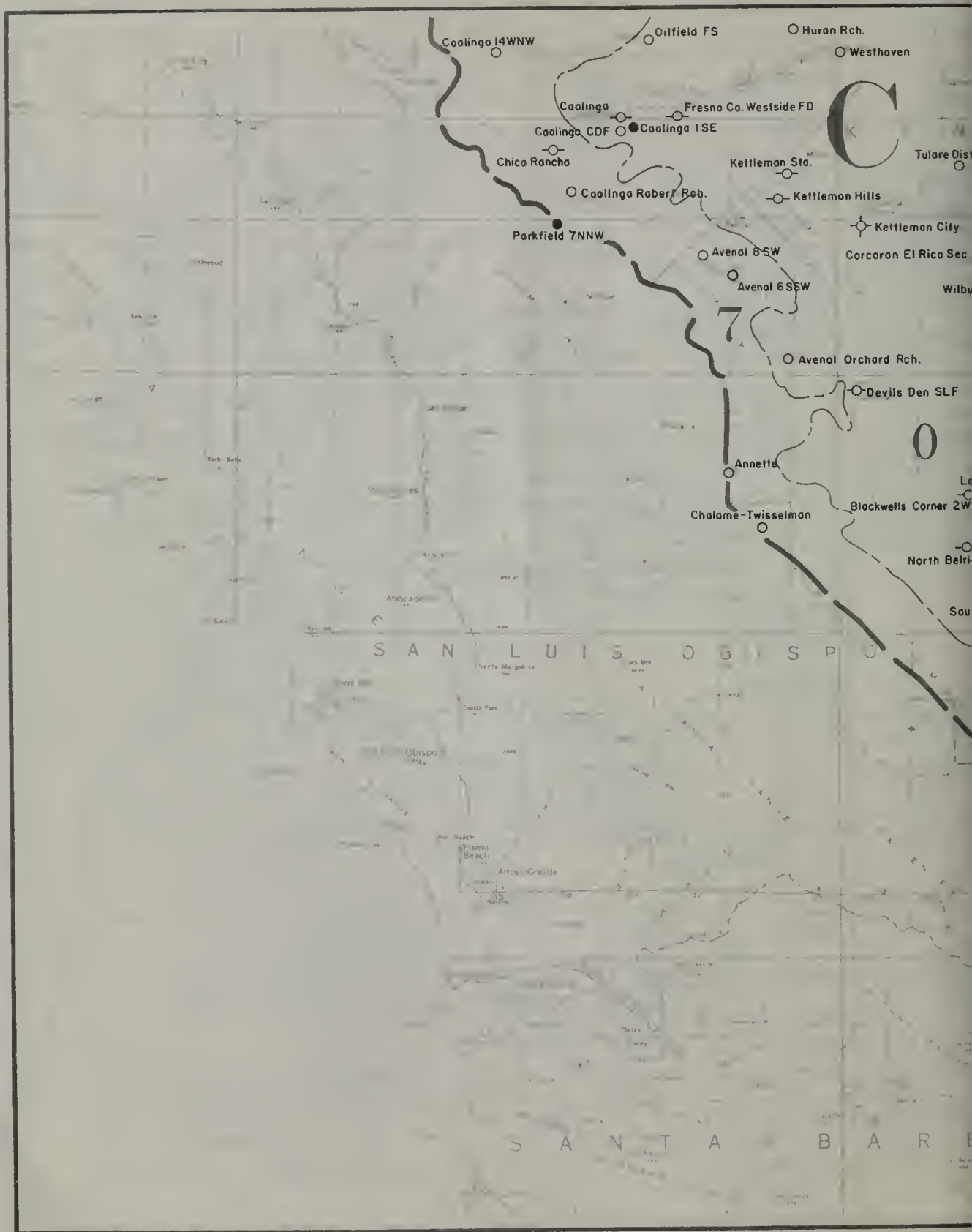






TABLE A-1

## INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
  - 001 Kern County Land Company
  - 002 Boswell Company
  - 003 P. G. and E. Company
  - 004 Southern California Edison Company
  - 005 California Electric Power Company
  - 010 Amateur Radio Weather Network KTRB
  - 011 Southern Pacific Transportation Company
  - 012 Miller and Lux, Inc.
  - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
  - 401 Hetch Hetchy Water Supply
  - 404 Oakdale Irrigation District
  - 405 City of Los Angeles, Department of Water & Power
  - 420 Stanislaus County
- 800 - 899 State
  - 801 Pomology Department, University of California, Davis
  - 804 Division of Beaches and Parks
  - 805 State Department of Fish and Game
  - 806 Department of Water Resources
  - 808 Division of Forestry
  - 809 Division of Highways

## TABLE A-I (Cont.)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agency responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

## INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						0	I	II	0	I	II						
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P M	36	52	58	119	32	25	000		1958	1970		10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E	M	37	23	22	119	44	07	907		1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D M	35	59	25	119	28	42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E M	38	04	20	120	32	18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R M	35	38	48	120	10	12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	35	12	00	118	49	00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L M	36	29	30	118	49	35	900		1925			55
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	37	21		120	37		000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	M	36	28	00	118	40	00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A M	37	05	40	119	29	50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P M	35	48	23	120	05	18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G M	35	57	33	120	13	25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K M	35	55	30	120	10	05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P M	36	37	53	119	00	46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H M	35	22	41	119	02	17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q M	35	25	38	119	02	34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B M	36	54	33	119	05	15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	36	49		118	53		900		1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E M	38	27	45	120	02	30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	37	34		120	07		903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	38	12	12	120	04	30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	36	41	00	118	52	00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	38	00	00	119	47	00	900		1947	1971		55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B M	35	20	11	119	05	27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C M	36	41	05	119	01	50	000		1967	1973		10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J M	37	12	15	119	14	20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N M	37	11	59	119	18	19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E M	37	08	54	119	23	00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G M	37	12	00	119	20	00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L M	35	37	15	119	53	40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	36	57	37	119	26	45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D M	37	02	18	119	14	24	905		1960	1967		10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R M	35	21	00	119	19	00	001		1944	1969		15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N M	35	11	42	119	11	43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R M	35	14	25	119	18	23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K M	35	24	00	119	28	00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L M	38	11	50	120	21	55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R M	36	08	17	118	37	36	000		1959	1970		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N M	36	28	35	120	23	20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B M	36	32	48	119	45	30	000		1960	1971		10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L M	37	22	03	120	34	20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H M	37	23	56	120	03	08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B M	37	28	33	120	06	33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M M	37	24	30	120	05	00	000		1951	1970		22
C5 1647	CHAGOOPA	10390		T16S	R33E	M	36	30		118	27		901		1964	1972		54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L M	37	58	00	119	55	00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M M	36	05	13	120	29	22	000		1969			10
B7 1737	CHIUQUITO CREEK	7290	SEC 07	T05S	R24E	N M	37	30	20	119	23	21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R M	35	35	00	120	07	00	000		1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	34	48	00	119	01	00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M S	35	02	18	118	58	28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	37	32		119	17		900		1946	1972		20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P M	36	09	00	120	21	00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R M	36	02	18	120	26	40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J M	36	07	39	120	20	38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	36	14	00	120	34	00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q M	36	08	03	120	22	00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	M	37	16	00	119	42	00	907		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D M	36	42	20	120	28	25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N M	38	02	22	120	24	37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K M	37	59	00	120	38	00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P M	36	05	53	119	34	51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E M	36	02	36	119	38	42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q M	35	57	49	119	42	14	002		1951	1969		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A M	37	43	25	120	12	12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36	34	00	118	21	00	000		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M M	37	17	26	119	31	35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G M	35	07		118	35		806		1961	1973		15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E M	37	07	18	119	59	00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R M	35	57	15	118	51	28	000		1968	1969		54

**TABLE A-1 (Cont.)**  
**INDEX OF CLIMATOLOGICAL STATIONS**

**SAN JOAQUIN VALLEY**

Station			Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County	Code
Number	Name	O						I	II	O	I	II								
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876			15	
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952			15	
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958			50	
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	37	07	00	120	44	00	013		1949		01	24		
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	37	34		120	47		900		1964			50		
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965			24	
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959			15	
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937			15	
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944			54	
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959	1972		10	
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958	1970		10	
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940			55	
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900		1955	1970		54	
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909			22	
C1 2577	DUSY BENCH	9470		T10S	R31E	M	M	37	06		118	35		900		1964			10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	M	35	59		118	39		903		1964			54	
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925			55	
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001		1963	1969		15	
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953	1972		50	
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944			39	
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935			22	
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938			54	
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959			24	
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956			15	
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934	1969		10	
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942			10	
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933			10	
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940			10	
C0 3207	FOUNTAIN SPRINGS F S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965			54	
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899			10	
C0 3258-80	FRESNO CO WESTSIDE PD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963			10	
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896			10	
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000		1965			20	
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921			54	
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960			15	
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951			15	
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940			15	
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900		1947	1970		55	
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924			54	
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965			22	
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940			55	
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940			55	
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927			24	
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930			24	
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928			24	
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958			24	
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899			16	
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000		1964			16	
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960			10	
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910			55	
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949			22	
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960			02	
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948			24	
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900		1959			54	
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37	48		119	52		907		1967			55	
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952	1969		16	
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955			22	
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939			22	
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960			22	
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	M	M	36	11	00	118	37	00	900		1959			54	
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38	06	00	119	45	00	900		1948	1971		55	
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950			05	
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915			10	
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	41	120	06	05	000		1951			10	
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918			35	
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952	1970		22	
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949			15	
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000		1954			54	
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50		905		1958			22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954			54	

TABLE A-1 (Cont.)

## INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County	Code
Number	Name						0	I	II	0	I	II							
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M	37	18	00	119	06	00	900		1946			10	
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36	29	12	118	50	06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35	13	28	118	33	55	000		1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M	35	26	27	118	47	45	003		1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M	35	56	43	118	28	33	004		1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M	35	27	37	118	46	48	900		1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M	35	46	35	118	26	08	900		1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	M	35	59	45	119	57	55	900		1930	03		16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M	36	01	50	120	06	15	000		1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M	36	04	28	120	05	08	900		1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	A	M	37	47	54	120	38	42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38	28	42	120	00	48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37	58	00	119	53	00	900		1909	1972		55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S	34	49	58	118	51	51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37	13	50	120	14	50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37	18	39	120	15	05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36	23	00	119	01	31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36	11	24	119	04	20	900		1913			54
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E	M		36	47		120	48		900		1968			10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M	37	23	10	120	43	15	000		1948	07		24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M	37	22	29	120	47	40	000		1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E	M		36	36		118	14		900		1968			54
C6 5098	LORAIN	2720	SEC 21	T30S	R33E	K	M	35	18	05	118	25	54	900		1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M	36	59	02	120	50	45	013		1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M	37	00	54	120	53	55	904		1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M	37	03	00	120	51	00	900		1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M	36	52	52	120	56	25	900		1932			24
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M		37	01		120	56		900		1968			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35	37	00	119	41	17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36	54	48	119	14	42	905		1960	1967		10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E	M		38	01	00	119	53	00	900		1948	1971		55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M	36	55	15	120	01	12	904		1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	M	36	58		120	03		900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M	35	21	42	118	55	18	004		1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M	37	20	31	119	19	45	905		1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M	37	47		121	12		900		1964			39
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N	S	35	04	48	119	22	58	900		1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S	35	04		119	24		000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M	37	29	10	119	58	00	900		1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M	37	29	20	119	57	55	000		1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M	37	26	30	119	49	37	000		1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	M	37	30	04	119	59	05	808		1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36	20	24	120	24	54	000		1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M	37	53	25	119	51	10	900		1930		21	55
E5 5460	MCDIEMID STA	2990	SEC 33	T02S	R17E	H	M	37	43	18	120	05	48	000		1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	M	35	18	20	119	37	20	000		1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M	37	04	38	119	26	00	900		1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M	37	57	10	120	30	53	404		1955	1969		55
B0 5526	MENDOTA 1' NNW	172	SEC 25	T13S	R14E	H	M	36	46	23	120	23	09	013		1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	M	36	39	05	120	27	20	806		1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M	36	47	15	120	22	12	900		1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M	36	44	58	120	28	00	000		1948			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M		37	17	43	120	29	13	900		1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37	17	47	120	21	09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37	18	53	120	28	12	900		1938			24
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S	34	51	02	119	11	18	000		1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M		36	26	00	118	35	00	900		1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M		36	45	00	118	43	00	900		1957	1969		10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M		37	38	36	121	00	29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M		36	13	00	118	10	00	900		1940	1971		54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M		35	06	15	118	58	00	001		1963	1969		15
C1 5832	MORAIN CREEK	8840		T14S	R31E	M		36	43		118	34		903		1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36	14	30	118	42	54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37	17		119	06		004		1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900		1889			50

## INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name							O	I	II	O	I	II						
C0 6230-50	NORTH BELBRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	16		806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E	M	M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCHÉ	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B8 6676	PANOCHÉ 2 W	1320	SEC 21	T15S	R10E	M	M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCHÉ WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	M	38	03	00	119	40	00	900		1948	1971		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	M	37	28	00	121	07	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000		1954	1971		24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	M	35	48	00	118	34	00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	M	35	48	00	118	38	00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	M	36	07	00	118	32	00	900		1955	1970		54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940	1970		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M	M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E	M	M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957	1972		22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	M	37	19	00	118	52	00	900		1952			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	M	35	58	00	118	21	00	900		1947	1971		54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E	M	M	38	06	00	119	51	00	900		1948	1971		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808		1962	1970		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W	S	S	35	05	35	119	12	35	000		1963	1970		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M	M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J	M	37	32	35	120	28	57	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M	M	37	50	00	119	30	00	900		1947	1972		22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960	1967		10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELBRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37	58	45	120	38	48	000		1938			20
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38	10	06	120	06	08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36	44	58	119	12	21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957			55

TABLE A-1 (Cont.)

## INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M	36	56	00	118	35	00	900		1955		10	
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959		54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	900		1960		10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940		15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954		15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876		15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	M	35	08	05	118	26	31	900		1940		15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35	01	35	118	44	38	900		1895		15
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	M	35	36	49	118	37	30	000		1968	1971	15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959		54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959	1970	10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36	22	00	118	51	00	900		1940		54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909	1971	54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940		54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36	37	57	120	14	13	000		1953		10
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	M	37	29	10	119	49	06	000		1965		22
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948		10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919		54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36	04	41	119	47	33	002		1953	1969	16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948	1970	15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910		54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910		54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M	M	36	22	00	118	17	00	900		1945		54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958		05
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	M	37	57	55	120	13	55	000		1969		55
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M	M	37	53	00	119	20	00	900		1947		55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893		50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958		50
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	M	37	28	22	120	59	30	000		1958		50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965		54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922		15
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M	M	37	22	00	118	59	00	900		1946		10
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35	50	24	119	05	12	004		1920		54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M	M	36	45		118	25		901		1964		10
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	M	36	19	45	119	17	18	900		1903		54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	M	36	19	32	119	13	24	000		1959	1970	54
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	M	35	25	17	118	32	35	000		1968		15
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35	35	35	119	19	57	900		1899		15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37	32		119	40		900		1941		22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35	40	00	118	18	00	900		1940		15
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961	1971	20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925		10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928		50
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M	M	37	01	48	118	55	06	903		1969		10
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36	20	56	118	34	16	900		1959		54
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	M	36	42	05	118	55	56	815		1966		54
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37	20	12	120	02	18	903		1950		22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35	36	10	119	45	10	000		1962		16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E	M	M	37	00	40	118	58	20	003		1957		10
C5 9754	WIFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	M	35	43	00	118	27	00	900		1894		15
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35	42	02	118	50	34	808		1956		15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M	M	37	45	00	119	35	00	900		1904		22
<u>ADDITIONAL STATIONS, 1971-72</u>																		
B0 5738-35	MODESTO 6 SW	50	SEC 03	T05S	R08E	C	M	37	32	05	121	04	30		1970		50	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	M	37	03	18	119	22	12	905		1960		10
C0 4564-20	KINGSBURG 2 S	286	SEC 02	T17S	R22E	M	M	36	30		119	33		915		1970		16
C6 2683-20	EDMONSTON P P	1300	SEC 17	T10N	R18W	M	S	34	56	42	118	49	30	806		1971	1973	15
C5 6724-50	PASCOES	9130	SEC 36	T22S	R33E	M	M	35	58		118	21		903		1971		54
B7 8139-40	SHAVER 1 S	5480	SEC 02	T10S	R24E	J	M	37	05	20	119	18	56		1973		10	
B7 8139 50	SHAVER 3 S	4900	SEC 09	T10S	R24E	R	M	37	04	08	119	21	02		1973		10	
C0 3257 30	FRESNO DWR	313	SEC 26	T13S	R20E	C	M	36	46	42	119	46	03		1968		10	
C0 5151 30	LOST HILLS DWR	312	SEC 03	T27S	R21E	M	M	35	36	52	119	41	40		1973		15	
C0 9724 60	WIND GAP	814	SEC 26	T11N	R20W	S	S	35	01	05	118	58	31		1974		15	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	M	37	03	18	119	22	12		1960		10	
B6 6321 85	OAKHURST NO 2	2480	SEC 14	T07S	R21E	P	M	37	19	00	119	38	53		1969		10	
B0 8322	SNOW RANCH	240	SEC 12	T01N	R10E	Q	M	37	57		120	49			1934		50	
B5 8858 40	TENAYA LAKE	8150	SEC 21	T01S	R23E	B	M	37	50	14	119	27	00		1972		22	
B4 8931 50	TIOGA PASS	10000	SEC 31	T01N	R25E	B	M	37	54	39	119	15	30		1972		55	

TABLE A-2  
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- NR Data not received before publication.
- RB Record begins.
- RE Record ends.
- INC Incomplete data.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

**TABLE A-2 (Cont.)**  
**PRECIPITATION DATA**

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1973						1974									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
SAN JOAQUIN RIVER BASIN																	
SAN JOAQUIN VAL FL B0																	
CASTLE AFB	14.33	0.00	0.00	0.00	2.28	1.52	4.17	1.74	0.81	2.25	1.50	0.00	0.06	0.64	0.00	0.00	14.97
DELTA RCH	8.45	0.00	0.00	T	1.08	1.35	1.98	1.10	0.32	1.94	0.68	0.00	0.00	0.36	0.00	0.00	8.81
DENATR BARFIELD	13.63	0.00	0.00	0.00	1.39	2.96	3.04	1.98	0.63	2.43	1.00	0.00	0.20	0.69	0.00	0.00	14.32
FANCHER RCH CAMP #3	NR	0.00	0.00	0.00	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
GUSTINE 5 SW	10.02	0.00	0.00	0.00	1.31	1.45	2.83	1.51	0.07	2.23	0.52	0.10	0.00	0.32	0.00	0.00	10.34
GUSTINE SNYDER	9.17	0.00	0.00	0.00	1.20	1.30	2.58	1.82	0.16	1.57	0.54	0.00	0.00	0.00	0.00	0.00	9.17
GUSTINE FOREMOST	10.40	0.00	0.00	0.00	1.53	1.91	2.64	1.46	0.09	2.14	0.63	0.00	0.00	0.37	0.00	0.00	10.77
GUSTINE 7 SSW	9.48	0.00	0.00	0.00	1.30	1.86	2.39	1.42	0.24	1.72	0.50	0.05	0.00	0.30	0.00	0.00	9.78
HILMAR	8.77	0.00	0.00	T	1.83	1.49	2.11	1.19	0.24	1.17	0.64	0.00	0.10	0.17	0.00	0.00	8.94
LE GRAND 6 N	13.39	0.00	0.00	0.00	1.86	2.16	3.24	1.82	0.57	2.47	1.27	0.00	0.00	0.07	0.00	0.00	13.46
LIVINGSTON CITY FALL	11.15	0.00	0.00	0.01	2.18	1.36	3.13	1.71	0.64	1.16	0.96	0.00	0.00	0.00	0.00	0.00	11.14
LIVINGSTON 5 W	10.92	0.00	0.00	0.00	1.83	1.35	2.96	1.47	0.37	2.16	0.78	0.00	0.00	0.35	0.00	0.00	11.27
LOS BANOS 5 S	7.37E	0.00	0.00	0.00	0.88	0.50	2.04	1.50E	0.27	1.71	0.47	0.00	0.00	0.84	0.00	0.00	8.21E
LOS BANOS FIELD STA	7.65	0.00	0.00	T	0.97	0.84	2.01	1.57	0.10	1.77	0.39	0.00	0.00	0.40	0.00	0.00	8.05
MADERA 1 D	10.24	0.00	0.00	0.00	1.29	1.04	2.27	2.62	0.47	1.84	0.71	0.00	0.00	0.00	0.00	0.00	10.24
MENDOTA 1 NNW	6.95	0.00	0.00	0.00	0.83	0.82	1.11	1.67	0.19	1.98	0.35	0.00	0.00	T	0.00	0.00	6.95
MENDOTA VDL FARMS	7.33	0.00	0.00	0.00	0.69	1.12	1.07	1.94	0.24	1.87	0.40	0.00	0.00	0.17	0.00	0.00	7.50
MERCEO FANCHER RCH	14.55	0.00	0.00	0.00	1.97	2.03	3.70	2.38	0.75	2.49	1.57	0.00	0.05	0.18	0.00	0.00	14.73
MODESTO 6 SW	14.02	0.00	0.00	0.00	2.80	1.61	4.23	1.74	0.39	2.09	0.97	0.13	0.06	0.64	0.00	0.00	14.66
MODESTO MTRB	14.41E	0.00	0.00	T	1.98	1.81	4.25	1.37	0.57	2.56	1.57	0.00E	0.30E	0.50E	0.00	0.00	14.91E
OAKDALE	18.45	0.00	0.00	T	2.51	2.27	4.03	2.22	0.66	3.88	2.18	0.07	0.63	0.83	0.00	0.00	19.28
ORESTIMBA	10.84	0.00	0.00	0.00	1.64	1.74	2.11	1.88	0.23	2.40	0.84	0.00	0.00	0.25	0.00	0.00	11.09
PANOCHÉ WATER DIST	7.62	0.00	0.00	0.00	0.66	0.86	1.57	1.88	0.31	1.86	0.48	0.00	0.00	0.00	0.00	0.00	7.62
PATERSON	10.34	0.00	0.00	0.00	2.03	1.12	2.56	1.36	0.16	2.09	0.90	0.05	0.07	0.63	0.00	0.00	10.77
POSO CANAL CO HQ	7.73	0.00	0.00	0.00	1.12	0.59	1.17	1.50	0.38	2.33	0.64	0.00	0.00	0.25	0.00	0.00	7.98
RIPON	13.87	0.00	0.00	T	1.82	2.10	3.43	1.92	0.52	2.05	1.83	0.00	0.20	0.73	T	0.00	14.60
SAN LUIS CANAL CO HQ	7.86	0.00	0.00	T	0.96	0.67	1.98	1.53	0.12	1.78	0.82	0.00	0.00	0.45	0.00	0.00	8.31
SNELLING	14.02	0.00	0.00	0.00	1.63	1.91	3.98	2.03	0.71	2.40	1.32	0.00	0.04	0.34	0.00	0.00	14.36
SNELLING 3 WNW	13.04	0.00	0.00	0.00	1.96	1.67	3.64	1.59	0.51	2.17	1.28	0.00	0.22	0.25	0.00	0.00	13.29
SNOW RANCH	Inc	Inc	Inc	Inc	1.80	2.60	4.85	1.86	0.63	4.20	2.75	0.00	1.65	0.00	0.00	0.00	20.34
SOUTH DOS PALOS	8.15	0.00	0.00	0.00	0.91	0.71	1.84	2.05	0.05	1.84	0.73	0.00	0.02	0.06	0.00	0.00	8.21
TURLOCK 5	11.28	0.00	0.00	0.00	2.30	1.49	2.67	0.91	0.51	2.51	0.84	0.00	0.05	0.60	0.00	0.00	11.88
TURLOCK 8 WSW	11.43	0.00	0.00	0.00	2.19	1.10	3.08	1.46	0.36	2.08	1.16	0.00	0.00	0.40	0.00	0.00	11.83
WESTLEY	10.72	0.00	0.00	0.00	1.81	1.42	2.92	1.58	0.22	1.66	1.11	0.00	0.00	0.45	0.00	0.00	11.17
STANISLAUS RIVER B3																	
ANGELS CAMP	38.76	0.00	0.00	0.09	2.93	8.48	7.37	4.34	1.68	9.81	3.62	0.01	0.43	1.95	0.00	0.00	40.62
BEARDSLEY DAM	43.27	0.05	0.18	0.07	3.65	9.88	9.10	5.08	1.84	8.18	5.15	0.02	0.07	2.57	0.10	0.00	45.64
BEAR VALLEY-ALPINE	Inc	NR	NR	NR	4.40E	12.80E	12.40E	8.09	3.39	9.87	3.88	0.00	0.00	1.82	0.00	0.02	56.67E
COLUMBIA	34.62	0.00	0.00	T	3.34	6.40	6.99	4.98	1.37	6.85	4.69	0.00	0.00	1.68	0.00	0.00	36.30
COPPERPOLIS	27.56E	0.00	0.00	0.09	2.64	5.30	6.17	2.41	1.18	* E	9.03	0.00	0.74	1.49	0.00	0.00	28.96E
PINECREST STRAWBERRY	45.59	0.00	0.15	0.08	4.04	10.97	8.36	5.43	1.93	9.15	5.33	0.10	0.05	2.33	0.24	0.00	47.93
SPRING GAP FOREBAY	46.18	0.00	0.00	0.12	3.95	11.81	9.12	4.66	1.67	9.05	5.67	0.08	0.05	2.62	0.07	0.00	48.75
TULLOCH DAM	24.94	0.00	T	T	2.27	3.48	5.97	2.71	1.41	5.28	2.97	0.00	0.85	1.61	0.00	0.00	26.55
TUOLUMNE RIVER B4																	
DON PEDRO RES	22.29	0.00	0.00	0.18	2.56	3.75	5.16	3.19	0.93	4.12	2.36	0.00	0.04	0.52	0.00	0.00	22.63
EARLY INTAKE PH	36.33	0.06	0.12	0.04	2.61	8.42	7.31	4.57	1.23	6.65	4.20	0.00	0.00	0.80	0.00	0.00	37.27
HODGSON MEADOW	48.05	0.00	0.08	T	3.86	11.93	9.05	4.36	0.91	12.67	5.08	0.11	0.00	1.53	T	0.00	49.50
MOCCASIN	26.38	0.00	0.00	T	2.88	4.55	6.05	3.87	1.18	5.02	2.82	0.00	0.01	0.82	0.02	0.00	27.22
TUOLUMNE MAINT YARD	38.96	0.00	0.00	T	3.90	7.99	8.99	5.30	2.14	5.94	4.65	0.00	0.05	1.91	0.00	0.00	40.87
MERCEO RIVER B5																	
BEAR VALLEY	37.17E	0.00	0.00	0.00	2.67	8.40E	10.87	3.33	1.30	6.14	4.46	0.00	0.00	0.72	0.16	0.00	38.05E
CATHEY'S VALLEY 3 NNW	25.75	0.00	0.00	0.00	2.80	4.25	4.90	3.95	1.05	5.23	3.55	0.00	0.00	0.60	0.00	0.00	26.35
COULTEVILLE FFS	11.94	0.00	0.04	0.05	3.53	5.55	2.78	7.81	1.78	5.12	5.28	0.00	0.00	1.59	0.00	0.00	33.44
GREELEY HILL 1 N	40.56	0.00	0.00	0.08	3.28	7.89	9.40	4.84	1.96	7.65	5.46	0.00	0.00	1.40	0.00	0.00	41.88
NORNITOS ERICKSON RCH	22.27	0.00	0.00	0.00	2.92	3.86	4.53	3.01	1.15	4.03	2.77	0.00	0.00	0.51	0.00	0.00	22.78
HORNITOS GILES RCH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
HORNITOS USCE	Inc	0.00	0.00	0.00	2.25	3.22	3.80	NR	0.82	3.65	NR	0.00E	0.00E	NR	0.00E	0.00E	Inc
JERSEYDALE G S	40.17	0.00	0.03	0.00	3.47	8.29	6.28	6.48	0.94	10.76	3.92	0.00	T	0.91	0.00	0.00	41.05
MARIPOSA REYNOLDS	32.40	0.00	0.00	0.03	3.28	5.96	5.99	4.36	1.21	6.56	5.01	0.00	0.00	0.74	0.00	0.00	33.11
MARIPOSA R S	Inc	0.00E	0.00E	0.00E	NR	6.21	5.58	4.24	1.53	7.37	NR	0.00E	0.00E	NR	0.00E	0.00E	Inc
FRESNO-CHOWCHILLA R B6																	
AHWAHNEE 2 NNW	31.74	0.00	T	0.08	3.61	6.04	5.62	5.30	0.92	5.95	4.22	0.00	0.00	0.10	0.00	0.00	31.76
COARSEGOLD	31.12	0.06	T	0.39	3.09	5.42	4.59	5.99	1.23	6.16	4.20	0.00	0.00	0.11	0.00	0.00	30.78
DAULTON	14.37	0.00	0.00	0.00	2.03	1.87	2.63	2.67	0.66	3.27	1.24	0.00	0.00	0.00	0.00	0.00	14.37
HIDDEN VALLEY	30.02	0.00	T	0.02	2.85	6.84	4.42	4.29	2.31	5.62	3.67	0.00	0.00	0.64	0.00	0.00	30.64
MARIPOSA 8 ESE	36.14	0.00	0.00	0.00	3.18	7.25	6.27	5.28	1.07	8.89	4.20	T	0.00	0.34	0.00	0.00	36.48
OAKHURST	30.93	0.00	0.00	0.00	3.19	5.95	5.59	5.29	1.38	5.08	4.45	T	0.00	0.10	0.00	0.00	31.03
OAKHURST #2	32.31	0.00	0.01	0.06	3.34	8.33	4.37	4.50	2.34	5.47	3.89	0.00	0.00	0.05	0.00	0.00	32.29
RAYMOND 10 N	27.40	0.00	0.00	0.04	2.82	4.41	4.75	4.13	2.10	4.83	4.32	0.00	0.00	0.49	0.00	0.00	27.85
RAYMOND 12 NNE	28.40E	0.00	0.00	0.10	2.95	4.65	4.91	4.95	1.14	5.20	4.50E	0.00E	0.00E	0.30E	0.00E	0.00E	28.60E
TRIANGLE-DESMOND	37.28	0.00	0.03	0.03	3.89	6.82	6.59	6.07	1.25	8.98	3.62	T	0.00	0.54	0.00	0.00	37.76
WHITE ROCK-PRESTON	19.40E	0.00E	0.00E	0.00E	2.43	2.90	3.63	3.02	1.01	3.44	2.97	0.00E	0.00E				

**TABLE A-2 (Cont.)**  
**PRECIPITATION DATA**

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1973						1974									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
TULARE LAKE BASIN																	
TULARE LAKE VAL FL CO																	
ARVIN	6.02	0.00	0.00	0.00	0.45	1.17	1.12	0.78	0.07	1.59	0.79	0.05	0.00	0.13	0.00	0.00	6.15
AVENAL ORCHARD	9.16	0.00	0.00	0.00	0.45	1.14	0.78	4.55	0.00	2.20	0.04	0.00	0.00	0.00	0.00	0.00	9.16
BUENA VISTA RCH H&L	4.36	0.00	0.00	0.00	0.12	0.38	1.16	0.81	T	1.22	0.67	0.00	0.00	0.00	0.00	0.00	4.36
BUENA VISTA RCH H&L 2	3.85	0.00	0.00	0.00	0.14	0.37	0.88	0.67	T	1.21	0.58	0.00	0.00	0.00	0.00	0.00	3.85
CANTUA RCH	NR	0.00	0.00	0.00	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
COALINGA CDF	7.32	0.00	0.03	0.00	0.32	0.96	0.81	3.51	0.01	1.64	0.03	0.01	0.00	0.00	0.00	0.00	7.29
COIT RCH HDQ	5.31	0.00	0.00	0.00	0.54	0.77	0.78	1.70	0.16	1.24	0.12	0.00	0.00	0.00	0.00	0.00	5.31
CORCORAN EL RICO 1	7.77	0.00	0.00	0.00	0.88	1.12	0.43	2.97	0.14	2.12	0.11	0.00	0.00	0.00	0.12	0.00	7.89
DELANO COTT CAMP	7.54	0.00	0.16	0.00	0.68	0.73	0.91	2.20	0.33	2.03	0.50	0.00	0.00	0.00	0.00	0.00	7.38
DEVILS DEN SLF	7.45	0.00	0.00	0.00	0.57	0.64	0.55	3.79	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	7.45
DI GIORGIO	5.87	0.00	0.00	0.00	0.23	0.95	1.25	1.07	0.02	1.50	0.85	0.00	0.00	T	0.00	0.00	5.87
DINUBA ALTA I D	11.62	0.00	0.00	0.00	1.10	2.09	1.35	3.50	0.60	2.40	0.58	0.00	0.00	0.06	0.00	0.00	11.68
FIVE POINTS DIENER	5.61	0.00	0.00	0.00	0.68	0.48	0.59	3.09	T	0.76	0.01	0.00	0.00	0.06	0.00	0.00	5.67
FOUNTAIN SPRINGS FS	11.43	0.00	0.01	0.00	1.47	2.14	0.93	2.82	0.37	2.51	1.18	0.00	0.00	0.00	0.00	0.00	11.42
FRESNO CO WESTSIDE F D	5.96	0.00	0.02	0.00	0.37	0.30	0.64	3.24	0.01	1.36	0.02	0.00	0.00	0.00	0.00	0.00	5.94
FRESNO DWR	10.26	0.00	0.00	0.00	1.01	1.18	1.73	3.07	0.22	2.74	0.31	0.00	0.00	0.00	0.00	0.00	10.26
GIN YARD	4.33	0.00	0.00	0.00	0.09	0.33	0.95	0.78	T	1.39	0.79	0.00	0.00	0.00	0.00	0.00	4.33
HANFORD REFINERY	7.90	0.00	0.00	0.00	0.83	0.47	1.17	3.17	0.12	1.90	0.24	0.00	0.00	0.00	T	0.00	7.90
HURON RANCH	6.40	0.00	0.00	0.00	0.49	0.52	0.92	3.24	0.07	1.16	0.00	0.00	0.00	0.00	0.00	0.00	6.40
IVANHOE I D	11.34	0.00	0.00	0.00	0.94	1.98	1.82	2.78	0.43	2.73	0.66	0.00	0.00	T	0.00	0.00	11.34
KETTLEMAN HILLS	6.85	0.00	0.00	0.00	0.49	0.48	0.59	4.06	0.03	1.17	0.02	0.01	0.00	0.00	0.00	0.00	6.85
KINGSBURG 2 S	9.28	0.00	0.00	0.00	0.73	0.94	1.75	3.14	0.00	2.44	0.28	0.00	0.00	0.00	0.00	0.00	9.28
LOST HILLS DWR	6.03	0.00	0.00	0.00	0.25	0.38	0.50	2.52	0.12	1.80	0.44	0.02	0.00	0.00	0.00	0.00	6.03
MAGUNDEN	4.99	0.00	0.00	0.00	0.15	0.62	1.00	0.90	0.12	1.54	0.66	0.00	0.00	0.00	0.00	0.00	4.99
MENDOTA MURIETTA RCH	5.93	0.00	T	0.00	0.60	0.60	0.86	1.76	0.20	1.61	0.30	0.00	0.00	0.02	0.00	0.00	5.95
NORTH BELBRIDGE	5.35	0.00	0.00	0.00	0.35	0.75	0.20	2.41	0.05	1.40	0.10	0.09	0.80	0.00	0.00	0.00	5.35
OLDFIELD FS	6.33	0.00	0.16	0.00	0.47	0.96	0.37	3.14	0.04	1.14	0.05	0.00	0.00	0.00	0.00	0.00	6.17
PORTERVILLE 3 W	10.49	0.00	0.00	0.00	1.03	1.58	1.50	3.08	0.29	2.17	0.84	0.00	0.00	0.00	0.00	0.00	10.49
RECTOR	10.82	0.00	0.00	0.00	1.01	1.36	1.60	2.99	0.43	2.61	0.82	0.00	0.00	0.00	0.00	0.00	10.82
REEDLEY MVD	13.91	0.00	0.00	0.00	1.22	1.66	2.16	4.07	0.71	3.40	0.69	0.00	0.00	0.00	0.00	0.00	13.91
RIVERDALE	8.19	0.00	0.00	0.00	0.74	1.08	0.39	3.49	0.16	2.17	0.16	0.00	0.00	0.00	0.00	0.00	8.19
SANGER 1 NE	12.90	0.00	0.00	0.00	1.16	1.96	2.21	3.60	0.36	2.97	0.64	0.00	0.00	0.00	0.00	0.00	12.90
SANGER R S	11.14	0.00	0.00	0.00	0.09	1.44	2.33	3.53	0.42	2.23	1.10	0.00	0.00	0.04	0.00	0.00	11.14
SAN JOAQUIN	5.94	0.00	0.00	0.00	0.58	0.40	0.81	2.20	0.06	1.60	0.29	0.00	0.00	0.00	0.00	0.00	5.94
SOUTH BELBRIDGE	5.40	0.00	0.00	0.00	0.27	0.74	0.12	2.14	0.31	1.52	0.22	0.08	0.00	0.00	0.00	0.00	5.40
SOUTH LAKE FARMS HDQ	6.35	0.00	0.00	0.00	0.92	0.61	0.29	2.35	0.15	1.90	0.13	T	0.00	T	0.00	0.00	6.35
TRANQUILITY GLOTZ	6.17	0.00	T	0.00	0.62	0.43	0.90	2.15	0.14	1.71	0.22	0.00	0.00	0.03	0.00	0.00	6.20
TULARE	8.48	0.00	0.00	0.00	0.72	0.66	1.19	3.23	0.27	1.99	0.42	0.00	0.00	0.00	0.00	0.00	8.48
U S COTTONFIELD STA	5.53	0.00	0.00	0.00	0.26	0.69	0.81	1.49	0.08	1.72	0.48	T	0.00	0.02	0.00	0.00	5.55
VESTAL	8.88	0.00	0.00	0.00	0.95	1.12	1.08	2.43	0.26	2.58	0.46	0.00	0.00	0.00	0.00	0.00	8.88
WILBUR DITCH	6.87	0.00	0.00	0.00	0.82	0.43	0.60	2.66	0.13	1.91	0.32	T	0.00	0.00	0.00	0.00	6.87
WIND GAP	Inc						RB	1.97	0.09	1.65	0.74	0.00	0.00	0.00	0.08	0.00	Inc
KINGS RIVER C1					RE												
GENNER RANCH		0.00	0.10	0.00										0.00	0.00	0.00	
BLASINGAME	22.35	0.00	0.00	0.00	2.40	3.49	2.82	4.88	0.74	4.59	3.43	0.00	0.00	0.00	0.00	0.00	22.35
PINEHURST R S	32.92	0.00	0.00	0.00	2.54	6.25	4.67	7.28	1.29	5.63	4.84	0.38	0.00	0.04	0.00	0.00	32.92
SQUAW VALLEY-FRESNO	24.68	0.00	0.00	0.00	1.09	3.73	4.10	6.15	0.85	4.85	3.91	0.00	0.00	0.00	0.00	0.00	24.68
TRIMMER R S	30.24	0.00	0.00	0.07	2.43	5.15	5.11	6.06	0.87	6.04	4.21	0.00	0.00	0.04	0.00	0.00	29.91
WISHON LAKE	50.78	0.00	0.14	0.00	3.57	9.04	8.38	10.57	0.74	13.39	4.06	0.89	0.00	0.39	0.63	0.00	51.66
KAWAHEH RIVER C2																	
KAWAHEH PH 3	26.44	0.00	0.00	0.00	2.06	4.36	4.39	6.33	1.19	4.73	3.11	0.27	0.00	0.00	0.00	0.00	26.44
MIRAMONTE H C	28.76	T	0.00	0.00	2.22	4.83	3.97	7.04	1.21	5.97	3.52	T	0.00	T	0.00	0.00	28.76
TERMINUS DAM	15.48	0.00	T	0.00	1.42	2.66	2.21	3.76	0.89	2.62	1.90	0.02	0.00	T	0.00	0.00	15.48
WHITAKER FOREST	Inc	0.00	0.01	0.00	3.18	8.23	NR	NR	NR	NR	NR	NR	0.00	0.22	0.00	0.00	Inc
TULE RIVER C3																	
SUCCESS DAM	12.63	0.00	T	0.00	1.27	2.01	1.83	3.25	0.25	2.51	1.49	0.02	0.00	0.03	0.02	0.00	12.68
TULE RIVER INTAKE	30.10	0.00	0.00	0.00	2.15	4.92	5.80	6.04	1.26	5.57	4.16	0.20	0.00	0.08	0.00	0.00	30.18
TULE RIVER PH	21.17	0.00	0.02	0.00	1.51	3.24	3.49	5.08	0.72	3.61	3.42	0.08	0.00	0.01	0.00	0.00	21.16
GREENHORN MOUNTAIN C4																	
WOODY	12.64	0.00	0.00	0.00	0.85	2.05	2.65	1.97	0.31	3.45	1.27	0.09	0.00	0.00	0.00	0.00	12.64
KERN RIVER C5																	
ISABELLA DAM	9.80	0.00	0.00	0.00	0.11	1.26	1.25	2.75	0.09	2.00	1.95	0.39	0.00	0.78	0.00	0.00	10.58
KERN CANYON	8.34	0.00	0.00	0.00	0.26	1.27	2.20	1.35	0.24	1.82	1.13	0.07	0.00	0.00	0.00	0.00	8.34
KERN R 3 INTAKE SCE	16.25	0.00	0.06	0.00	0.26	2.21	3.00	4.03	0.42	4.33	1.76	0.18	0.00	0.00	0.00	0.00	16.19
ONYX	6.74	0.00	0.00	0.00	0.37	0.78	0.32	2.32	0.09	1.78	1.06	0.00	0.00	0.13	0.00	0.00	6.87
TEHACHAPI MOUNTAINS C6																	
KEENE	15.97	0.00	0.00	0.00	0.37	2.99	3.03	2.95	0.41	2.66	3.10	0.46	0.00	0.15	0.00	0.00	16.12
HIL POTRERO	10.93	0.00	0.00	0.00	0.20	1.38	1.85	3.43	0.31	2.26	1.38	0.10	0.00	0.43	0.10	T	11.46
WALKER BASIN	17.46	0.00	0.00	0.00	0.63	2.81	2.26	3.44	0.29	2.90	4.84	0.29	0.00	0.00	0.00	0.00	17.46
TULARE L BA WESTSIDE C7																	
ANNETTE	12.64	0.00E	0.00E	0.00E	0.36	2.81	1.21	5.31	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	12.64
AVENAL 8 SW	12.78	0.00	0.09	0.00	0.00	2.04	1.38	5.73	0.00	3.59	0.04	0.00	0.00	0.00	0.00	0.00	12.78
AVENAL 6 SSW	12.14	0.00	0.00	0.00	0.64	1.90	1.11	5.10	0.00	3.28	0.11	0.00	0.00	0.00	0.00	0.00	12.14
CHICO RANCHO	13.76	0.00	T	0.00	0.74	1.94	1.81	5.10	0.12	3.72	0.24	0.09	0.00	T	0.00	0	

TABLE A-3

## STORAGE GAGE PRECIPITATION DATA

## SAN JOAQUIN VALLEY

Station	Agency	1973-74 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	6-29-73	7-10-74	44.50
LAKE ALPINE	DEPT OF WATER RESOURCES	6-29-73	7-10-74	79.4
TUOLUMNE RIVER B4				
TIOGA PASS	DEPT OF WATER RESOURCES	6-28-73	7- 9-74	42.74
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	6-28-73	7- 9-74	42.85
MERCED RIVER B5				
OSTRANDER LAKE	YOSEMITE NATL PARK SERVICE	Fall 73	7-25-74	*40.2
SNOW FLATS	DEPT OF WATER RESOURCES	6-28-73	7- 9-74	63.65
TENAYA LAKE	DEPT OF WATER RESOURCES	6-28-73	7- 9-74	45.34
SAN JOAQUIN RIVER B7				
CHIQUEITO CREEK	DEPT OF WATER RESOURCES	6-27-73	7- 8-74	40.2
CLOVER MEADOW	DEPT OF WATER RESOURCES	6-27-73	7- 8-74	52.10
KAISER MEADOW	SO CALIF EDISON COMPANY	9-11-73	9-24-74	49.04
MAMMOTH POOL	SO CALIF EDISON COMPANY	9- 7-73	9-23-74	39.40
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-11-73	9-17-74	46.05
VERMILLION VALLEY	SO CALIF EDISON COMPANY	9-12-73	9-11-74	32.69
TULARE LAKE BASIN				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	Not serviced		
DUSY BENCH	DEPT OF WATER RESOURCES	9-11-73	8-27-74	34.75
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-14-73	9-10-74	52.75
STATE LAKES	U S CORPS OF ENGINEERS	9-14-73	9-26-74	25.95
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7-27-73	7-19-74	56.76
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-12-73	9-10-74	40.60
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 9-73	10- 7-74	39.80
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-10-73	9-10-74	51.45
GIANT FOREST	U S CORPS OF ENGINEERS	10-10-73	10- 8-74	43.15
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10-10-73	10- 9-74	38.85
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-23-73	9-24-74	38.25
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-27-73	9-25-74	43.80
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-24-73	9-26-74	38.70
ROGERS CAMP	U S CORPS OF ENGINEERS	9-27-73	9-26-74	35.45
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	9-25-73	10- 9-74	33.05
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-20-73	9-12-74	26.93
PASCOES	U S CORPS OF ENGINEERS	9-26-73	9-24-74	38.75
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	9-26-73	9-24-74	53.25
TUNNEL R S	DEPT OF WATER RESOURCES	9-14-73	9-17-74	24.43
WET MEADOW	U S CORPS OF ENGINEERS	9-25-73	9-25-74	42.30
TULARE LAKE BASIN ON WESTSIDE C7				
OILFIELDS JOAQUIN RDG	DEPT OF WATER RESOURCES	8-30-73	10-11-74	11.0

\* No oil added in 1973 - possible evaporation



APPENDIX B  
SURFACE WATER MEASUREMENTS



## INTRODUCTION

This appendix presents surface water data for the 1974 water year, which is from October 1, 1973 to September 30, 1974. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports. \*

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California  
Part 1, Surface Water Records  
Volume 2: Northern Great Basin and Central Valley  
United States Department of the Interior  
Geological Survey  
Prepared in cooperation with the California Department of Water Resources  
and with other agencies.
2. Kings River Watermaster Report  
Kings River Water Association
3. Water Supply  
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Summary of Water Conditions in California,  
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970  
Department of Water Resources  
This index contains the period of record--with number of years missing--and more  
information for 800<sup>+</sup> stations in the San Joaquin Valley area. The index also  
identifies the agency from which a particular record may be obtained.

\*Figure B-1 shows station locations

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41	
69	109
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47	
44	
79	
80	
87	
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90	
89	
77	
50	
51	
61	
64	105
63	104
46	
45	
76	
75	
65	
66	
52	
58	
86	
83	
84	
59	
43	
62	103
38	101
71	112
42	
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67	107
57	102
74	116
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## UNIMPAIRED RUNOFF

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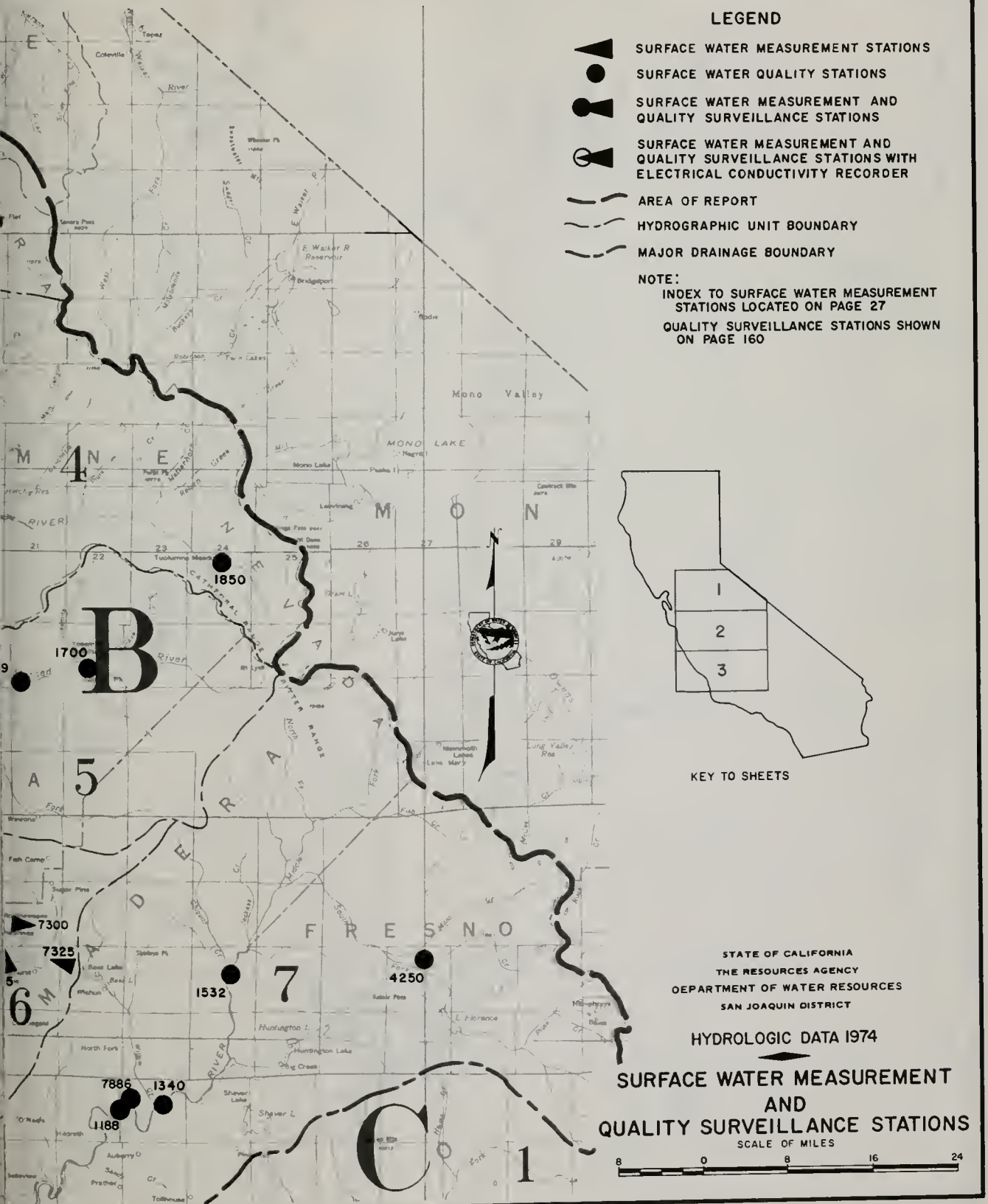
## HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS

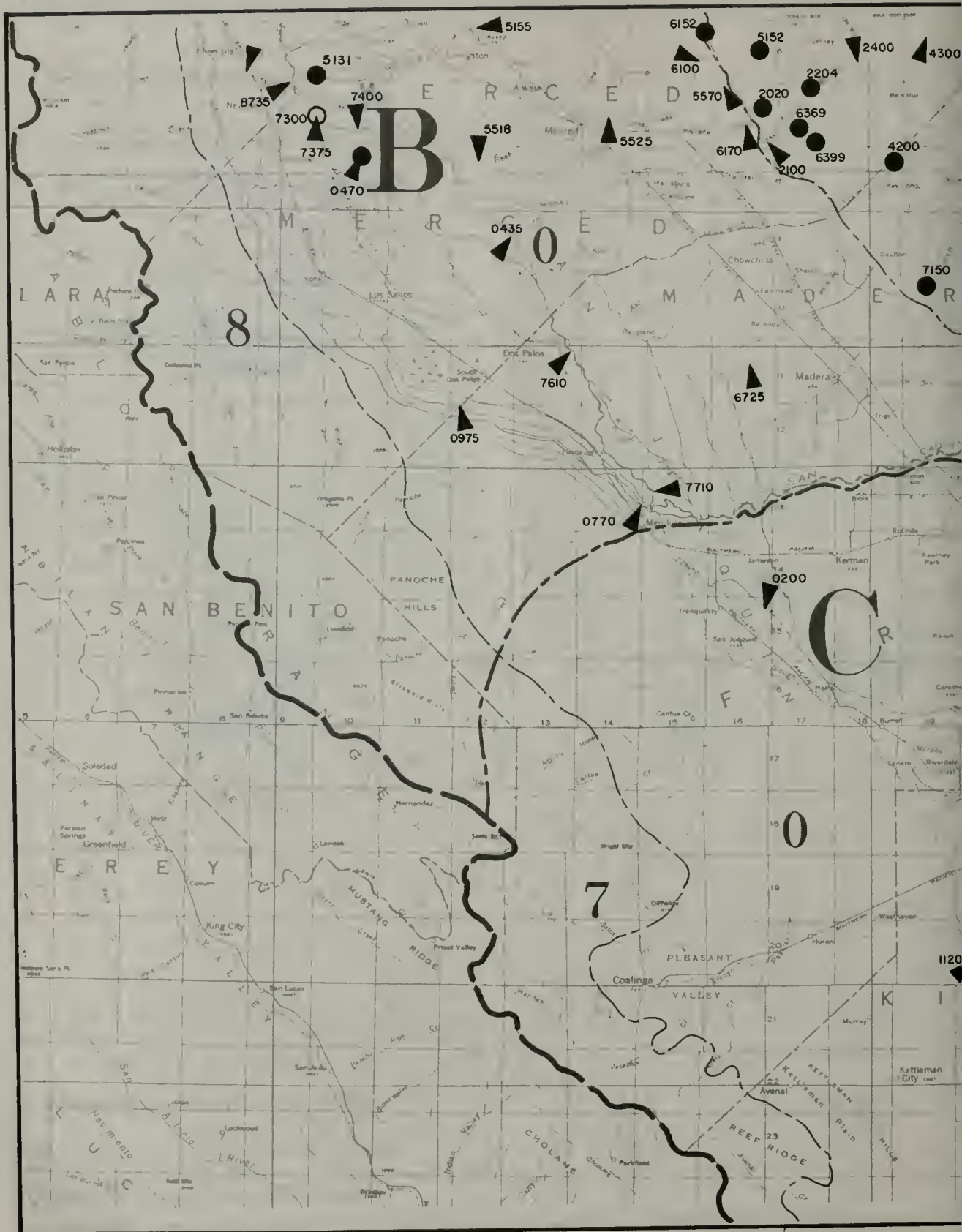
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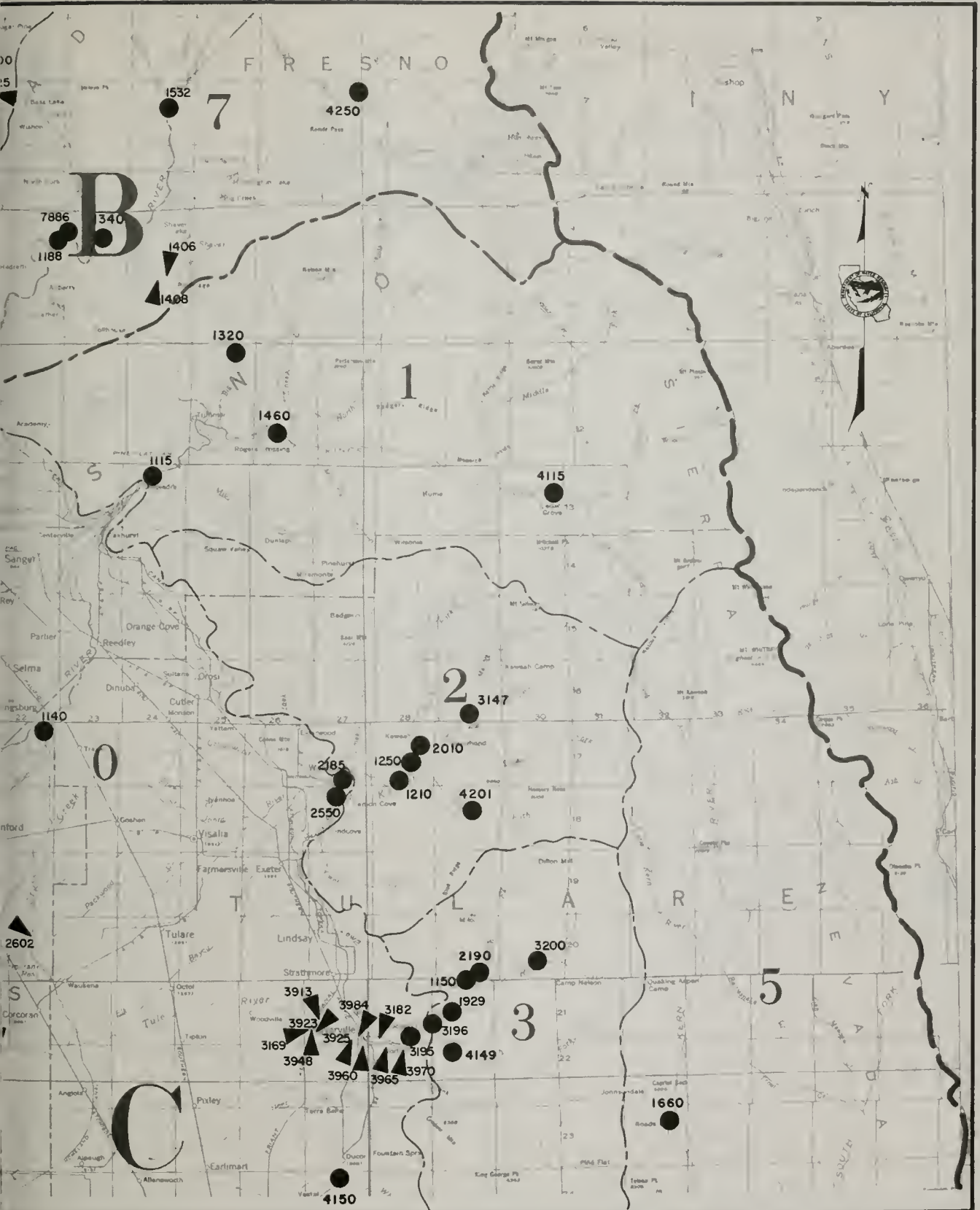
Station Number

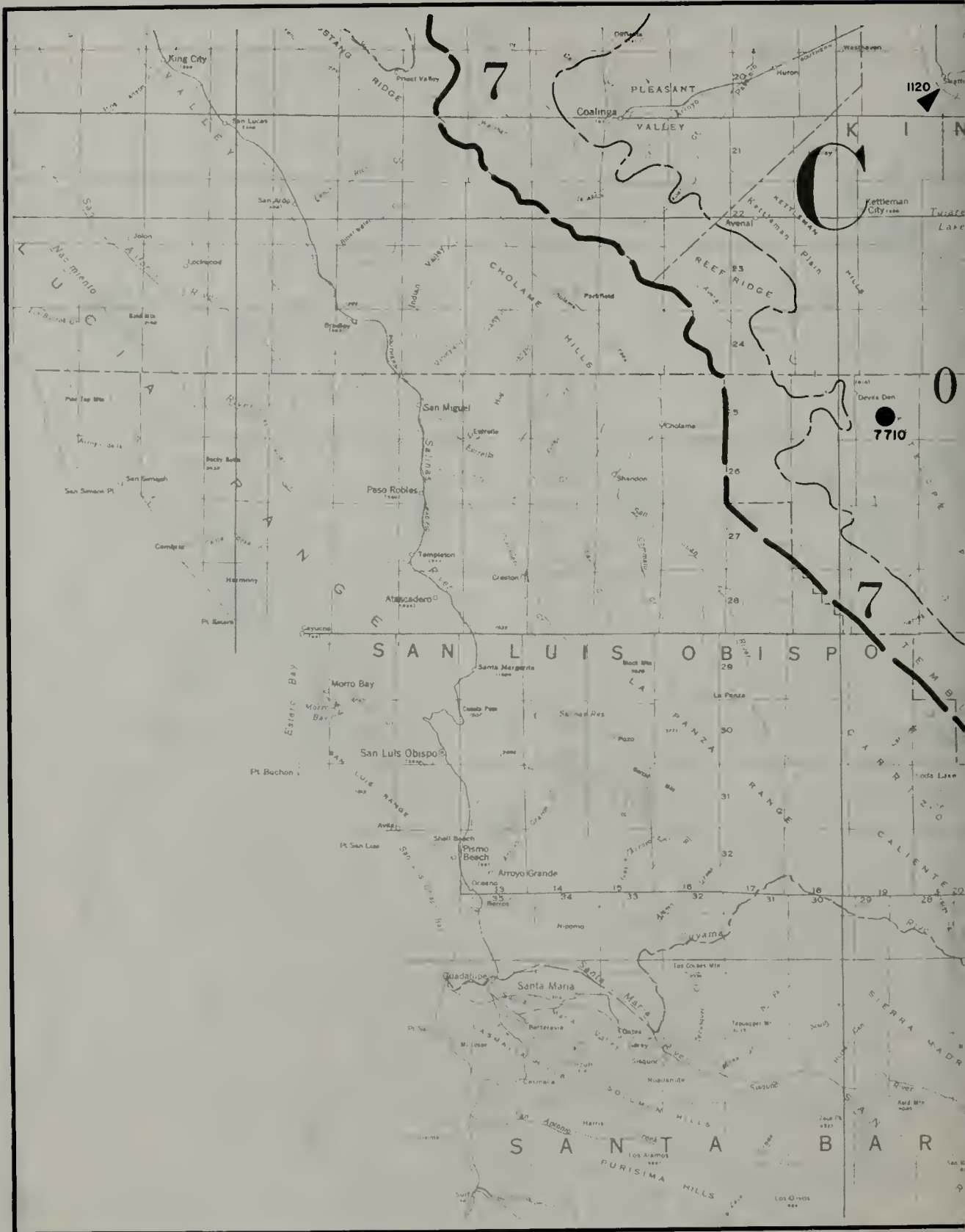
		Daily Mean Discharge	Daily Mean Gage Height
<u>HYDROGRAPHIC AREA B</u>			
SAN JOAQUIN VALLEY FLOOR			
B00435	Eastside Bypass near El Nido . . . . .	49	
0470	Salt Slough near Stevinson . . . . .	59	
0525	Mustang Creek near Ballico . . . . .	65	
0770	Delta-Mendota Canal to Mendota Pool . . . . .	41	
0975	Panoche Drain near Dos Palos . . . . .	58	
3115	Stanislaus River at Koetitz Ranch . . . . .	73	115
3125	at Ripon . . . . .		114
3175	at Orange Blossom Bridge . . . . .	72	113
4105	Tuolumne River at Tuolumne City . . . . .	70	111
4120	at Modesto . . . . .		110
4130	Dry Creek near Modesto . . . . .	69	109
4150	Tuolumne River at Hickman Bridge . . . . .	68	108
5155	Merced River at Cressey . . . . .	64	105
5170	below Snelling . . . . .	63	104
5518	Bear Creek at Merced Irrigation District West Boundary . . . . .	55	
5525	at McKee Road near Merced . . . . .	54	
5570	below Bear Reservoir . . . . .	53	
6170	Owens Creek below Owens Reservoir . . . . .	52	
6725	Fresno River Eight Miles West of Madera . . . . .	47	
7020	San Joaquin River near Vernalis . . . . .	74	116
7040	at Maze Road Bridge . . . . .	71	112
7200	at Patterson Bridge . . . . .	67	107
7300	near Newman . . . . .		106
7375	at Fremont Ford Bridge . . . . .	62	103
7400	near Stevinson . . . . .	57	102
7610	near Dos Palos . . . . .	43	
7710	near Mendota . . . . .	42	
7885	below Friant . . . . .	38	101
8735	Orestimba Creek below Highway 33 . . . . .	66	
MERCED RIVER			
B51250	Maxwell Creek at Coulterville . . . . .	61	
2580	Bean Creek near Coulterville . . . . .	60	
6100	Burns Creek below Burns Reservoir . . . . .	56	
FRESNO - CHOWCHILLA RIVERS			
B62100	Mariposa Creek below Mariposa Reservoir . . . . .	51	
2400	near Catheys Valley . . . . .	50	
4300	Chowchilla River, West Fork near Mariposa . . . . .	48	
7285	Miami Creek at Highway 49 near Ahwahnee . . . . .	46	
7300	near Oakhurst . . . . .	45	
7325	Fresno River, Lewis Fork near Oakhurst . . . . .	44	
SAN JOAQUIN RIVER			
B71406	Musick Creek #1 near Shaver Lake . . . . .		
1408	Musick Creek #2 near Shaver Lake . . . . .	75	
SACRAMENTO - SAN JOAQUIN DELTA			
B95925	Delta-Mendota Canal near Tracy . . . . .	40	
<u>HYDROGRAPHIC AREA C</u>			
TULARE LAKE VALLEY FLOOR			
C00200	James Bypass near San Joaquin . . . . .	39	
1120	Kings River, South Fork, below Empire Weir #2 . . . . .	77	
2602	Cross Creek below Lakeland Canal #2 . . . . .	78	
3110	Tulare Lake . . . . .		100
3169	Tule River below Porterville . . . . .	81	
3182	Porter Slough at Porterville . . . . .	83	
3913	Friant-Kern Canal Delivery to Porter Slough . . . . .	79	
3923	to Tule River . . . . .	80	
3925	Hubbs-Miner Ditch at Porterville . . . . .	87	
3948	Woods-Central Ditch near Porterville . . . . .	88	
3960	Poplar Ditch near Porterville . . . . .	86	
3965	Vandalia Ditch near Porterville . . . . .	85	
3970	Campbell-Moreland Ditch above Porterville . . . . .	82	
3984	Porter Slough Ditch at Porterville . . . . .	84	
5150	Kern River near Bakersfield . . . . .	89	
5180	at Second Point . . . . .	90	
7120	Buena Vista Creek near Taft . . . . .	91	













## UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE B-1

## ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River Inflow near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70	122	108	95	87	102	82	88	91	94
1970-71	98	92	79	85	89	74	73	62	66
1971-72	71	64	63	66	66	54	42	26	39
1972-73 (c)	112	115	122	123	118	133	152	169	141
1973-74	144	122	126	132	130	131	121	116	122

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF  
(a)

In percent of average

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	115	76	120	131	107	132	158	280	116
	Average	8	14	6	16	45	16	4	1	14
November	Percent	433	373	284	291	349	203	151	132	118
	Average	24	45	20	30	119	28	8	4	17
December	Percent	183	145	131	132	147	111	82	83	88
	Average	52	92	46	62	253	54	21	11	28
January	Percent	253	168	158	199	192	184	166	170	161
	Average	67	108	56	69	300	59	22	14	28
February	Percent	59	49	47	70	56	67	63	49	84
	Average	85	140	80	95	400	80	30	19	32
March	Percent	191	136	150	163	157	150	144	111	136
	Average	112	168	90	128	500	106	38	24	49
April	Percent	134	98	110	113	112	109	116	147	122
	Average	196	282	148	236	863	214	64	24	86
May	Percent	123	125	135	139	131	144	126	99	122
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	116	124	124	131	125	139	132	109	130
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	122	98	100	102	104	104	94	173	105
	Average	52	113	48	158	370	150	26	3	63
August	Percent	148	90	184	130	129	130	123	350	137
	Average	13	20	10	46	89	44	7	1	26
September	Percent	107	12	180	109	95	94	83	0	127
	Average	6	8	4	18	36	17	3	0	15
1973-74		114	122	126	132	130	131	121	116	122
Water Year Average		1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

# DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

## 1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

## 2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

## 3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	807885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	104	33	41	34	999	73	153	510	280	121	140	106
2	106	32	39	34	714	85	281	510 *	696	129	142	106
3	106	32	38	34	528	154	140	510	973	142	140	108
4	106	32	38	38	442	100	115	437	973	142	140	108
5	106	32	38	42	343	58	104	191	966	142	140	108
6	100	38	38	52	164	54	227	106	945	146	140	99
7	95	54	38	104	62 *	52	366	102	952	151	138	90
8	97	55	39	87	63	75	362	102	952	151	136	90
9	95	65	39	71	63	73	366	102	952	151	136	88
10	95	75	39	97	78	71	362	102	791	151	134	88
11	90	75	36	85	94	68	358	102	388	154	134	88
12	83	75	36	87	95	63	350	102	134	158	134	88
13	83	75	36	82	104	60	539	99	106	156	132	88
14	83	75	36	78	99	60	762	95	80	154	129	88
15	85	75	34	76	95	58	756	99	85	151	129	88
16	85	68	34	94	94	60	605	108	87	154	129	87
17	85	57	34	117	87	58	510	108	88	151	127	87
18	80	57	34	236	76	58	524 *	108	87 *	147	129	87
19	73	57	34	490	76	58	524	106	90	147	129	87
20	71	57	34	661	76	57	524	108	104	147	125	87
21	66	50	34	880	73	55	520	108	125	147	125	87
22	63	33	34	1180	70	52	520	110	123	147	125	87
23	58	32	34	1360	66	54	520	110	136	144	123	87
24	57	44	34	1350	68	52	520	110	108	144	121	85
25	57	47	34	1340	70	50	520	110	87	142	121	92
26	57	38	36	1340	70 *	52	520	110	90	142	117	99
27	54	34 *	41 *	1340	70	54	520	125	88	142	110	99
28	49	34	36	1300	70	76	515	129	104 *	142	110	100
29	49	36	34	1290		70 *	510 *	132	121	140	108	100
30	47 *	39	34	1290		70	510	134 *	123	140	106 *	100
31	46		34	1140 *		68		136		140 *	108	
MEAN	78.4	50.2	36.1	529	175	66.1	437	162	361	146	128	93
MAX.	106	75	41	1360	999	154	762	510	973	158	142	108
MIN.	46	32	34	34	62	50	104	95	80	121	106	85
AC. FT.	4820	2990	2220	32550	9740	4060	25990	9960	21490	8960	7850	5510

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FT.
188	1380	4.66	1	22	1800	32	1.73	11	2		13620

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	RE DATE
			CF5	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,000 12,400 <sup>a</sup>	23.8 11.69	12-11-37 6-6-69	OCT 07-DATE		1938		294.00	USC

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

<sup>a</sup> Maximum flows since construction of Friant Dam in 1944.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							0	729	0				1
2							0	726	261				2
3							0	705	776				3
4							388	654	828				4
5							172	600	735				5
							0						
6							0	370	702				6
7							0	265	963				7
8							0	212	1320				8
9							0	58	1629				9
10							0	0	1845				10
							0	0	2076				11
11							0	0	2181				12
12							0	0	2001	N	N	N	12
13	N	N	N	N	N	N	0	0	1863	O	O	O	14
14	O	O	O	O	O	O	0	0	1440				15
15							0	0					
16	F	F	F	F	F	F	103	0	1350	F	F	F	16
17	L	L	L	L	L	L	308	0	1374	L	L	L	17
18	O	O	O	O	O	O	365	0	1488	O	O	O	18
19	W	W	W	W	W	W	511	113	1076	W	W	W	19
20							660	559	232				20
							801	663	52				21
21							699	672	0				22
22							708	598	0				23
23							532	510	0				24
24							492	558	0				25
25													
26							575	598	0				26
27							630	612	0				27
28							756	475	0				28
29							768	258	0				29
30							777	105	0				30
31								12					31
MEAN							308	324	806				MEAN
MAX.							801	729	2181				MAX.
MIN.							0	0	0				MIN.
AC. FT.							18340	19940	47980				AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
119	2244	8.48	6	12	0900	0					86260

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 39 06	120 10 45	SW 1 15S 16E	5600	12.22	6-7-69	APRIL 29-DATE					
Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1974 are available from their office in Sacramento. Records since 1969 have been published in the Bulletin No. 130 series of reports.											

**TABLE B-3 (Cont.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	3744	3302	2333	854	2473	4174	2777	3286	4507	4502	4528	3930	3744
2	3737	3296	2315	854	2488	4245	2796	3519	4490	4509	4524	3945	3737
3	3725	3289	2329	857	2488	4635	2667	3948	4529	4459	4542	3661	3725
4	3722	3283	2318	856	2474	4241	2339	4189	4505	4554	4537	3229	3722
5	3731	3286	2332	861	2480	4615	2344	4193	4512	4537	4522	3024	3731
6	3738	3297	2377	862 *	2679	4595	2024	4117	4534	4453	4532	2992	3738
7	3751	3202	2411	861	2824	4610	1934	4230	4540	4457	4517	2868	3751
8	3726	3195	2338	863	3221	4324	1939	4567	4394	4478	4523	2869	3726
9	3736	3202	2338	862	3237	4224	1981	4566	4200	4494	4283	2868	3736
10	3730	3140	1102	861	3248	4291	1965	4368	3736	4472	4604	2867	3730
11	3730	2992	1073	857	3250	4241	1980	4541	3716	4471	4594	2857	3730
12	3796	2995	1113	857	3258	4042	2102	4541	3868	4485	4606	2852	3796
13	3661	2990	855	856	3272	4162	2369	4539	3956	4472	4612	2875	3661
14	3739	2996	856	855	3328	4039	2371	4540	4197	4477	4564	2874	3739
15	3300	2874	853	1336	3520	4033	2384	4522	4534	4504	4636	2773	3300
16	3044	2985	852	1684	3676	4145	2496	4532	4492	4517	4450	2768	3044
17	3034	2982	853	1677	3679	4313	2434	4543	4517	4527	4563	3262	3034
18	3007	2995	1366	1683	3717	4612	2340	4527	4437	4245	4537	3274	3007
19	2939	2980	1688	1683	3987	4603	2481	4502	4450	4547	4542	3334	2939
20	2921	2364	1664	1687	3985	4599	2541	4532	4569	4529	4548	3286	2921
21	2943	2535	1672	1167	4218	4582	2541	4522	4596	4518	4542	3299	2943
22	3036	3032	1676	858	4227	4572	2597	4526	4527	4525	4536	3291	3036
23	3168	2987	1674	858	4361	4591	2608	4524	4537	4512	4558	3284	3168
24	3073	2976	1673	1375	4357	4576	2789	4512	4522	4504	4546	3259	3073
25	2975	2960	1671	1687	4217	4572	3248	4487	4512	4489	4574	3300	2975
26	2993	2949	1671	1684	4159	4368	3379	4479	4502	4523	4547	3940	2993
27	3086	2983	1258	1676	4223	4352	3369	4489	4487	4499	4587	3918	3086
28	2980	3058	852	1683	4203	3853	3370	4480	4487	4537	4561	3977	2980
29	2915	2320	854	1678		3448	3366	4484	4497	4542	4560	4558	2915
30	2978	2327	852	1676		2869	3368	4490	4502	4552	4398	4372	2978
31	2916		853	2155		2844		4476		4527	3940		2916
MEAN	3341	2992	1551	1234	3473	4238	2563	4379	4395	4497	4520	3320	MEAN
MAX.	3796	3302	2411	1687	4361	4635	3370	4567	4596	4554	4636	4558	MAX.
MIN.	2915	2320	852	854	2473	2844	1934	3286	3716	4245	3940	2768	MIN.
AC.FT.	205685	178063	95351	75823	192893	260572	152529	269288	261528	276534	277914	197569	AC.FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
3375

MAXIMUM
DISCHARGE
4636
GAGE HT.
MO. DAY TIME
8 15 Daily

MINIMUM
DISCHARGE
852
GAGE HT.
MO. DAY TIME
12 16 Daily

TOTAL
ACRE FEET
2443749

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
37 47 45	121 35 05	SW31 1S 4E				JUN 51-DATE		1951		0.00
Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.										

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1682	690	124		0	1673	445	669	2482	2716	2919	2036	1
2	1647	630	124		0	1649	426	983	2282	2726	2901	1974	2
3	1670	620	208		0	1649	223	1203	1685	2860	2902	1765	3
4	1709	609	185		0	1614	0	1263	1401	2860	2902	1611	4
5	1709	598	173		237	1598	0	1263	1312	2857	3030	1523	5
6	1709	629	208		548	1600	127	1350	1319	2847	3072	1542	6
7	1696	655	169		573	1481	405	1504	1221	2787	3040	1482	7
8	1395	662	169		617	1347	400	1690	1061	2646	3073	1482	8
9	1309	673	169		617	1136	387	1897	550	2615	3057	1524	9
10	1293	634	143		704	1095	362	1984	112	2664	3058	1582	10
11	1401	635	190		780	1059	360	2042	0	2556	3058	1573	11
12	1372	616	175		964	937	425	2104	0	2599	2902	1584	12
13	1279	577	134	N	913	950	600	2220	0	2595	2758	1523	13
14	1126	585	31	O	903	975	600	2241	349	2579	2907	1512	14
15	1071	526	0		891	1026	670	2067	925	2549	2967	1477	15
16	1078	466	0	F	1038	1154	830	2059	1171	2562	2992	1564	16
17	1162	346	0	L	1038	1288	562	1985	1269	2637	2922	1636	17
18	1187	336	0	O	1083	1367	400	1956	1142	2722	2922	1683	18
19	1107	323	0	W	1077	1502	400	1956	1222	2886	2808	1665	19
20	946	340	0		1135	1445	531	1452	2083	2915	2768	1731	20
21	890	315	0		1150	1470	565	1179	2639	2970	2750	1795	21
22	814	314	0		1161	1500	400	1230	2637	2947	2636	1831	22
23	748	323	0		1224	1453	425	1744	2637	2996	2575	1907	23
24	750	323	0		1346	1453	635	1615	2757	3018	2536	1989	24
25	790	323	0		1458	1354	976	1725	2820	3016	2536	2001	25
26	790	323	0		1550	1244	931	1725	2800	2994	2387	1958	26
27	790	324	0		1649	1184	781	1750	2726	2994	2125	2018	27
28	740	326	0		1685	1045	643	1822	2640	2994	2065	1976	28
29	747	296	0			622	530	1982	2623	2967	2038	1935	29
30	730	226	0			511	500	2248	2623	3048	1990	1845	30
31	702		0			452		2422		3005	1990		31
MEAN	1163	475	71		869	1253	485	1720	1616	2811	2729	1724	MEAN
MAX.	1709	690	208		1685	1673	976	2422	2820	3048	3072	2036	MAX.
MIN.	702	226	0		0	452	0	669	0	2549	1990	1477	MIN.
AC. FT.	71540	28250	4370		48280	77020	28840	105780	96180	172820	167780	102590	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE 1248

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
3073		8	8	

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0		12	15	

TOTAL
ACRE FEET 903450

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO	
36 47 11	120 23 05	NW19 13S 15E				JUL 51-DATE				

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

**TABLE B-3 (Cont.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D.
1	194	134	68	50	104	303	132	348	487	518	468	371	
2	188	100	64	47	83	291	116	373	490	510	476	353	
3	241	100	64	43	258	291	163	398	487	504	470	335	
4	234	103	63	42	169	300	267	395	473	507	470	340	
5	223	110	64	41	63	325	103	384	464	510	467	332	
6	215	132	64	40	55	325	98	390	473	516	467	338	
7	204	134	65	44	52	312	95	390	513	528	467	343	
8	198	134	66	48	50	293	103	382	519	531	481	340	
9	190	136	66	48	49	286	106	382	516	510	495	338	
10	188	136	68	47	108	245	118	287	495	498	492	343	
11	192	134	69	45	157	204	124	419	492	492	484	348	
12	187	132	69	49	157	168	145	419	513	495	476	351	
13	178	132	69	55	155	167	145	419	552	498	456	358	
14	159	132	70	50	155	165	145	428	549	501	447	366	
15	157	136	70	44	155	161	170	438	534	504	447	348	
16	157	119	168	40	157	176	219	438	525	510	456	322	
17	165	105	277	34	159	206	245	436	525	525	473	320	
18	165	105	412	29	176	225	245	433	519	525	487	318	
19	161	105	513	23	196	236	242	430	522	522	461	318	
20	159	103	447	20	196	238	245	438	510	528	433	318	
21	159	103	303	19	204	240	245	444	510	534	433	320	
22	157	102	172	16	213	242	247	441	519	534	441	348	
23	150	100	98	15	219	227	247	436	531	531	447	374	
24	145	98	75	15	225	215	245	436	537	528	450	403	
25	145	97	72	14	230	215	258	438	531	531	456	450	
26	154	97	69	13	240	217	279	438	528	531	464	450	
27	168	95	66	15	249	215	286	444	534	528	467	438	
28	172	95	66	71	265	211	288	444	525	528	467	398	
29	170	94	63	214		182	291	438	525	516	430	395	
30	170	84	58	59		163	318	430	519	516	390	326	
31	170		53	103		145		461		481	382		
MEAN	178	113	126	44.9	161	232	198	419	514	516	458	357	
MAX.	241	136	513	214	265	325	318	444	552	534	495	450	
MIN.	145	84	53	13	49	145	95	348	464	481	382	318	
AC. FT.	10940	6720	7760	2760	8920	14260	11760	25740	30580	31720	28170	21230	

E -- ESTIMATED  
 NR -- NO RECORD  
 \* -- DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # -- E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
277	555	4.30	6	13	0700	13	1.62	1	25	2100	200560

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6- 1-52	OCT 39-DATE		1939 1954	1953	142.53 140.53	USBR USBR
Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	0	205	5	0	12	12	0	12	12	1
2			0	0	210	12	0	3	12	0	12	12	2
3			0	0	212	5	0	0	12	0	12	12	3
4			0	0	546	0	0	0	3	0	12	5	4
5			0	0	345	0	0	0	0	9	12	0	5
6			0	0	160	0	0	3	9	10	12	0	6
7			0	6	4	0	0	12	7	0	12	0	7
8			0	40	12	0	0	8	0	0	12	0	8
9			0	52	12	0	0	0	0	9	12	0	9
10			0	54	5	0	0	0	6	12	12	0	10
11			0	50	0	0	0	0	12	12	12	6	11
12			0	48	0	0	0	0	7	12	12	12	12
13	N	N	0	57	0	0	0	9	9	7	12	12	13
14	O	O	4	59	0	0	0	3	12	0	12	4	14
15	O		7	47	0	0	0	0	9	9	12	0	15
16	F	F	8	37	0	0	0	0	0	12	12	0	16
17	L	L	108	29	0	0	0	0	0	12	12	9	17
18	O	O	375	26	9	0	0	0	0	7	12	12	18
19	W	W	700	22	4	0	0	0	0	0	12	12	19
20			853	18	0	0	0	9	0	0	12	4	20
21			775	18	0	0	9	3	0	0	12	0	21
22			532	6	8	0	12	0	8	0	12	0	22
23			303	3	12	0	4	0	12	6	9	0	23
24			158	2	9	0	0	0	4	12	0	0	24
25			76	2	0	0	0	0	9	12	0	0	25
26			46	2	0	0	10	9	12	12	6	0	26
27			31	1	0	0	3	12	3	12	9	0	27
28			22	2	0	0	0	12	7	4	7	0	28
29			21	124	0	0	9	8	12	0	0	0	29
30			1	345	0	0	12	0	12	9	0	0	30
31			0	136	0	0	0	5		12	9		31
MEAN			130	38.3	62.6	0.7	2.0	3.5	6.3	6.1	9.8	3.7	MEAN
MAX.			853	345	546	12	12	12	12	12	12	12	MAX.
MIN.			0	0	0	0	0	0	0	0	0	0	MIN.
AC. FT.			7970	2350	3480	44	117	214	375	377	600	222	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
21.8

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
853	3.46	12	20
			1200

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
15749

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 38	120 30 02	N½12 11S 13E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1945	1944	116.5	USED
Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											
b Gage height at site and datum then in use.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	3.6 *	8.4	88	40	37	119	315 *	70 *	92	31	10	4.5	1
2	5.4	9.4	36	30	36	205	414	107	94	30	4.6	4.2	2
3	6.8	7.9	29	29 *	35	103	126	108	92	29	3.7	3.7 *	3
4	7.6	8.0	28	31	34	75 *	90	109	91	27	4.0	4.1	4
5	10	9.0 *	26	30	33 *	71	77	110	91	24 *	4.7	3.9	5
6	13	10	24 *	29	28	71	70	110	91	23	4.8	3.8	6
7	18	12	24	39	28	73	66	108	89 *	23	4.9 *	3.7	7
8	25	11	23	37	27	74	61	105	81	23	4.3	3.5	8
9	9.9	10	22	34	27	61	72	103	67	26	4.6	3.2	9
10	7.6	20	22	33	26	56	62	95	44	30	5.1	3.9	10
11	8.1	30	22	31	25	53	60	93	42	27	4.6	3.8	11
12	7.8	67	22	47	26	55	57	91	46	24	4.6	2.8	12
13	10	29	26	43	26	54	57	83	45	21	5.1	2.9	13
14	14	31	28	39	26	54	61	61	43	20	7.1	3.1	14
15	15	23	24	46	25	56	58	59	42	19	9.3	3.1	15
16	13	23	22	69	25	53	59	65	44	19	9.3	3.7	16
17	13	49	22	145	25	50	62	106	55	17	9.3	3.6	17
18	9.8	77	22	107	24	47	63	104	49	17	7.8	3.5	18
19	3.6	32	21	91	28	47	63	106	48	16	7.5	3.0	19
20	4.5	27	20	115	24	46	61	102	45	17	5.9	2.8	20
21	6.1	26	24	86	26	44	57	101	44	16	6.5	2.9	21
22	8.5	22	33	65	27	42	55	101	41	16	6.2	2.9	22
23	29	21	26	57	27	42	58	102	38	15	5.5	3.0	23
24	11	22	24	51	26	41	70	100	37	14	5.2	3.1 *	24
25	10	21	23	48	25	40	59	101	35	15	5.1	2.9	25
26	8.3	21	24	45	25	40	57	102	35	13	5.2	3.1	26
27	7.4	20	83	42	25	52	56	99	37	13	5.4	2.9	27
28	7.4	20	72	40	26	112	56	99	35	13	5.8	3.0	28
29	7.7	21	53	39		73	56	99	33	12	5.7	2.3	29
30	7.6	21	47	38		95	56	97	32	12	5.8	2.1	30
31	7.2		39	37		78		96		12	5.1		31
MEAN	10.2	23.6	32.2	52.0	27.6	67.2	84.5	96.5	55.3	19.8	5.9	3.3	MEAN
MAX.	29	77	88	145	37	205	414	110	94	31	10	4.5	MAX.
MIN.	3.6	7.9	20	29	24	40	55	59	32	12	3.7	2.1	MIN.
AC. FT.	627	1406	1981	3199	1531	4130	5026	5935	3289	1218	362	196	AC.

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN
DISCHARGE
40

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
1046	3.76	4	1	2200

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
1.6	0.90	9	30	1430

TOTAL
ACRE FEET
28900

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961		0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	867300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.8 *	2.0	17	9.6	9.2	75	103	15 *	7.4	3.7	2.3	1.0	1
2	0.8	2.0	9.1	8.1	9.0	96	103	14	7.2	3.7	2.2	1.0	2
3	0.8	2.0	6.8	7.3 *	8.6	33	40	14	7.1	3.6	2.1	0.9 *	3
4	0.9	2.0	6.2	7.3	8.4	24	31	13	6.9	3.6	2.1	0.9	4
5	0.8	2.1 *	5.5	7.3	8.3 *	22	27	13	6.8	3.4 *	2.2	0.9	5
6	0.8	2.6	5.0 *	6.2	8.1	23	25	13	6.8	3.3	2.1	0.9	6
7	1.4	2.9	4.8	8.0	7.8	24	24	12	6.7 *	3.3	2.0 *	0.8	7
8	6.3	2.4	4.8	8.4	7.4	24	22 *	12	6.5	3.3	1.8	0.9	8
9	3.2	2.2	4.6	7.7	7.6	21	24	11	6.3	3.7	1.8	0.9	9
10	2.2	3.8	4.6	7.1	7.6	19	22	11	6.1	4.3	1.8	0.9	10
11	1.9	6.3	4.6	6.8	7.4	19	21	11	5.9	4.4	1.6	0.9	11
12	1.8	23	4.6	9.8	7.4	21	21	10	5.8	4.1	1.6	0.9	12
13	1.7	7.3	5.5	11	7.8	20	21	10	5.6	3.8	1.5	0.9	13
14	1.5	8.3	7.0	10	7.5	21	19	9.8	5.5	3.6	1.5	0.9	14
15	1.5	5.5	5.4	13	7.3	21	18	9.6	5.3	3.4	1.5	0.9	15
16	1.4	5.3	4.9	23	7.2	20	18	9.5	5.3	3.3	1.5	0.9	16
17	1.3	20	4.7	56	7.0	19	17	9.2	5.4	3.1	1.5	0.9	17
18	1.3	30	4.8	36	6.9	18	17	9.2	5.3	3.1	1.4	0.9	18
19	1.4	9.3	4.4	28	7.7	18 *	17	9.6	5.3	3.0	1.4	0.9	19
20	1.4	6.8	4.3	33	7.4	17	17	9.8	5.4	2.9	1.4	0.9	20
21	1.4	6.5	4.8	23	7.3	17	16	9.5	5.2	2.8	1.4	0.9	21
22	1.7	5.3	7.4	17	6.8	16	15	9.2	5.0	2.7	1.3	0.9	22
23	11	4.8	5.9	14	6.9	15	16	9.0	4.8	2.7	1.3	0.8	23
24	4.4	4.6	5.4	13	6.9	15	19	8.9	4.6	2.6	1.2	0.8	24
25	3.0	4.4	5.2	12	7.0	17	17	8.5	4.5	2.7	1.2	0.7	25
26	2.6	4.5	5.2	11	7.0	16	17	8.2	4.4	2.6	1.1	0.8	26
27	2.4	4.1	23	11	7.0	22	17	8.0	4.3	2.4	1.1	0.9	27
28	2.1	4.0	23	10	6.9	38	17	7.7	4.2	2.4	1.2	0.9	28
29	2.0	3.8	16	9.7		30	17	7.7	3.9	2.3	1.1	0.9	29
30	2.1	3.8	14	9.4		35	16	7.7	3.8	2.4	1.1	0.9	30
31	2.1		11	9.1		26		7.5		2.3	1.0		31
MEAN	2.2	6.4	7.7	14.3	7.6	25.9	25.8	10.3	5.6	3.2	1.6	0.9	MEAN
MAX.	11	30	23	56	9.2	96	103	15	7.4	4.4	2.3	1.0	MAX.
MIN.	0.8	2.0	4.3	6.2	6.8	15	15	7.5	3.8	2.3	1.0	0.7	MIN.
AC. FT.	135	380	475	878	419	1591	1535	630	331	195	96	53	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9.3	324	6.43	4	1	2200	0.5	2.50	9	25	1230	6718

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00
Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).										

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	2.4	63	22	17	294	455	27	7.9	2.0	0.3		1
2	0.0	2.2	20	17	17	340	558	25	9.0	1.5	0.2		2
3	0.0	1.9	8.5	14 *	17	136	219	22	9.1	1.5	0.2		3
4	0.0	1.8	6.0	17	17	74	115	20	8.5	1.2	0.2		4
5	0.0	1.7 *	11	19	17 *	53	83	20	8.1	1.7 *	0.3		5
6	0.0	2.9	9.2 *	25	15	54	65	18	8.1	1.3	0.2		6
7	0.0	5.0	8.6	40	13	62	55	15	8.2 *	0.9	0.1 *		7
8	0.0	5.7	8.3	34 *	11	77	50 *	14	8.1	0.9	0.0		8
9	0.0	7.5	8.3	27	9.7	54	68	13	7.6	1.5	0.0		9
10	0.0	11	8.7	23	8.6	46	57	13	6.4	1.9	0.0		10
11	0.0	16	9.5	20	8.9	41	52	13	5.9	1.7	0.0		11
12	0.0	30 *	12	28	10	43	49	14	5.8	1.5	0.0		12
13	0.3	13	12	30	13	42	46	13	6.0	0.8	0.1		13
14	0.7	29	13	26	11	40	45	14	5.8	0.7	0.1	N	14
15	0.4	47	10	30	9.3	41	43	15 *	5.5	1.0	0.0	O	15
16	0.8	82	8.4	53	8.2	37	42 *	15	5.1	1.4	0.0		16
17	1.3	137	7.7	104 *	7.4	33	40	15	5.2 *	1.0	0.0	F	17
18	1.4 *	109	7.1 *	49	7.0	31	39	16	5.7	0.6	0.0	L	18
19	1.6	16 *	7.0	31	9.2	34 *	42	16	5.7	0.5	0.0	O	19
20	2.5	13	7.4	51	7.8	35	42	16	5.7	0.3	0.0	W	20
21	3.0	29	9.1	28	11 *	35	39	16	5.3	0.3	0.0		21
22	4.0	32	14	15	19	35	36	15	3.5	0.5	0.0		22
23	6.3	34	13	11	28	35	36	15	2.9	0.6	0.0		23
24	0.4	36	12	8.9	35	36	51	14	2.8	0.5	0.0		24
25	2.2	40	13	8.0	46	38	42	16	2.8	0.8	0.0		25
26	2.7	37	15	8.1	58	40	38	14	3.0	0.7	0.0		26
27	2.4	32	44 *	8.9	73	54	37	11	3.0	0.5	0.0		27
28	2.3	27	44	12	95	171	36	9.0	2.8	0.4	0.0		28
29	2.1	24	28	15		121	33	9.2	2.5	0.6	0.0		29
30	2.0	20	26	19		140	30 *	9.2	2.4	0.1	0.0		30
31	2.3		19	17		118		8.7		0.2	0.0		31
MEAN	1.3	28.2	15.6	26.2	21.4	77.1	84.8	15.2	5.6	0.9	0.1		MEAN
MAX.	6.3	137	63	104	95	340	558	27	9.1	2.0	0.3		MAX.
MIN.	0.0	1.7	6.0	8.0	7.0	31	30	8.7	2.4	0.1	0.0		MIN.
AC. FT.	77	1676	958	1608	1188	4740	5044	934	334	58	3		AC. FT.

E — ESTIMATED  
NR — NO RECORD  
\* — DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# — E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
23.0	1020	8.38	4	1	2230	0	0.62	10	1	0000	16620

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE		1969		0.00	LOCAL
Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.0	70	237	0.0	132	0.0	0.0				1
2		0.0	0.0	87	83	43	3115	0.0	0.0				2
3		0.0	85	76	70	798	1500	0.0	0.0				3
4		0.0	46	71	60	962	516	0.0	8.0				4
5		0.0	39	68	57	383	383	0.0	23				5
6		0.0	30	87	41	213	290	0.0	16				6
7		0.0	27	164	32	177	225	0.0	23				7
8		0.0	23	383	39	188	183	0.0	40				8
9		0.0	19	290	38	299	158	0.0	71				9
10		0.0	15	163	38	169	183	0.0	66				10
11		0.0	15	145	53	135	177	0.0	49				11
12		0.0	14	130	53	117	138	0.0	2.0				12
13		0.0	14	130	58	115	115	0.0	0.0				13
14		0.0	12	138	45	95	105	0.0	0.0				14
15	N	0.0	12	111	30	80	89	0.0	0.0	N	N	N	15
16	O	0.0	18	83	9.6	30	68	0.0	0.0	O	O	O	16
17		0.0	17	345	4.0	47	51	0.0	0.0				17
18	F	16	14	830	3.3	42	54	0.0	0.0	F	F	F	18
19	L	36	11	605	2.6	32	41	0.0	0.0	L	L	L	19
20	O	111	11	642	2.1	12	30	39	0.0	O	O	O	20
21	W									W	W	W	21
22		41	3.0	750	1.3	3.8	8.0	36	0.0				22
23		29	0.0	746	1.0	0.6	12	26	0.0				23
24		24	0.0	598	0.7	0.0	0.0	32	0.0				24
25		4.0	0.0	522	0.0	0.0	0.0	13	0.0				25
26		0.0	0.0	498	0.0	0.0	0.0	0.0	0.0				26
27		0.0	0.0	480	0.0	0.0	19	0.0	0.0				27
28		0.0	0.0	455	0.0	0.0	0.0	0.0	0.0				28
29		0.0	12	435	0.0	18	0.0	0.0	0.0				29
30		0.0	158	450		177	0.0	0.0	0.0				30
31		0.0	95	430		132	0.0	0.0	0.0				31
		82	312			109							
MEAN		8.7	24.9	333	34.1	141	253	4.7	9.9				MEAN
MAX.		111	158	830	237	962	3115	39	71				MAX.
MIN.		0.0	0.0	68	0.0	0.0	0.0	0.0	0.0				MIN.
AC. FT.		517	1531	20460	1894	8682	15060	289	591				AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
677	6460	8.57	4	2	1400	0		10	1		49020

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 58 30	120 12 12	NE15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL
Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B64300	WEST FORK CHOWCHILLA NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1		0.1 *	83	19	12	156	643 *	16	3.8	0.3 *			
2		0.1	23	12	11	311	289	15	3.6	0.3			
3		0.1	8.8	9.0	10	208	117	15	3.4	0.3			
4		0.1	6.0	10	9.9 *	96 *	86	15	2.8	0.2			
5		0.2	4.9 *	13	9.7	67	71	15	2.6	0.2			
6		0.2	4.1	44	9.3	57	61	14	2.4	0.1			
7		0.2	3.4	81	8.1	68	54	13	2.3	0.1			
8		0.2	3.1	48 *	7.9	115	50	12	2.1	0.1			
9		0.2	3.0	32	7.8	63	60	11	2.0	0.5			
10		0.3	2.6	26	7.6	52	52	10	1.8	1.4			
11		0.6	2.7	21	7.7	45	44	10	1.6 *	1.0			
12		8.8	2.7	37	8.5	42	39	9.3	1.5	0.8			
13	N	3.9	3.2	32	12	37	36	9.0	1.4	0.6	N	N	
14	O	5.4	3.9	25	9.4	34	32	8.8	1.3	0.4	O	O	
15		2.9	2.8	21	8.1	32	29	8.5	1.3	0.3			
16	F	2.1	2.5	34	7.6	29	27 *	8.4	1.2	0.2	F	F	
17	L	20	2.5	62 *	7.2	27	25	8.1	1.3	0.2 *	L	L	
18	O	36	2.5	46	6.9	26 *	25	8.0	1.3	0.1	O	O	
19	W	6.2	2.3	37	13	22	24	8.2	1.2	0.1	W	W	
20		3.8	2.2	39	11	21	24	8.0	1.3	0.1			
21		3.2	2.6	36	7.7	20	22	7.2	1.2	0.0			
22		2.6	11	26	6.8	19	21	6.9	1.0	0.0			
23		2.2	6.1	21	6.3	19	21	6.3	0.9	0.0			
24		2.2	4.3	20	6.1	18	33	6.0	0.8	0.0			
25		2.2	3.7	17	5.8	18	27	5.8	0.7	0.0			
26		2.2	3.6	16	5.5	18	22	5.7	0.6	0.0			
27		1.9	62 *	15	5.5	26	23	4.9	0.6	0.0			
28		1.8	41	14	5.9	77	19	4.3	0.5	0.0			
29		1.7	18	13		44	18	4.0	0.4	0.0			
30		1.7	15	12		54	17 *	4.0	0.3	0.0			
31			11	12		44		4.1		0.0			
MEAN		3.8	11.2	27.4	8.4	60.2	67.0	9.1	1.6	0.2			
MAX.		36	83	81	13	311	643	16	3.8	1.4			
MIN.		0.1	2.2	9.0	5.5	18	17	4.0	0.3	0.0			
AC. FT.		224	689	1686	465	3699	3989	558	94	14			

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
158

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
2150	7.59	4	1	2045

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0.0	1.34	10	1	0000

TOTAL
ACRE FEET
11420

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE			1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	*		0.0	5.1	779	0.3	112	92		*			1
2			0.0	19 *	760	0.2	628	47					2
3			0.0 *	32	276	2.6	2584 *	33				*	3
4			0.0	48	130	1323 *	1465	34					4
5			0.0	35	184	1224	808	36	*				5
6			0.0	30	126	583	450	42			*		6
7			0.0	39	74	261 *	320	25					7
8		*	0.0	264	57 *	206	317	12					8
9			0.0	561 *	29	298	294	2.8					9
10			0.0	367 *	17	427	269	0.0					10
11			0.0	229	14	225	320	0.0					11
12			0.0	174	8.2	153	304	0.0					12
13	N	N	0.0	138	3.8	91	218	0.0	N	N	N	N	13
14	O	O	0.0	186 *	1.8	66 *	160	0.0	O	O	O	O	14
15			0.0	182	0.5 *	44	331 *	0.0 *					15
16	F	F	0.0	118	0.4	24	339	0.0	F	F	F	F	16
17	L	L	0.0 *	70	0.4	9.4	278	0.0	L	L	L	L	17
18	O	O	0.0	569	0.4	4.5	162	0.0	O	O	O	O	18
19	W	W *	0.0	1088	0.3	3.8	114	0.0	W	W	W	W	19
20			117	882	0.3	2.4	92	0.0					20
21			389	1020 *	0.3	2.0 E	75	0.0					21
22			371	1246	0.3	1.7 E	83	0.0					22
23			245	1233	0.3	1.5 E	67	0.0					23
24			143	1246	0.3	1.4 E	50	0.0					24
25			77	1124	0.3	1.3 E	24	0.0					25
26			45	1043	0.3	1.4 E	34	0.0					26
27		*	34	993	0.3	2.2 E	89	0.0					27
28			22	944	0.3	2.2 E	104	0.0					28
29			15	918		2.0 E	150	0.0					29
30			9.7	955		3.9 E	150 *	0.0					30
31			7.4	960 *		150		0.0					31
MEAN			47.6	539	88.0	165	346	10.4					MEAN
MAX.			389	1246	779	1323	2584	92					MAX.
MIN.			0.0	5.1	0.3	0.2	24	0.0					MIN.
AC. FT.			2926	33160	4888	10150	20610	642					AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	DISCHARGE	MAXIMUM	GAGE HT.	MO.	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL
100	3228	14.23	4	3	0300		0.0		10	1			7238

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS
Station located on left bank 2.8 miles below Washington Road and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.											

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	*	2.2	147	88	23	184	1360 *	17	3.2	0.2 *			1
2		3.3	54	53	22	683	659	16	3.0	0.2	*		2
3		3.5	23	36	20	538	220	15	2.8	0.1		*	3
4		3.8	16	40	19 *	249	141	15	2.6	0.1			4
5		4.2	13 *	61	18	145	105	14	2.3	0.1			5
6		4.6	11	215	18	102	83	14	2.2	0.1			6
7		5.2	10	310	17	105	69	13	2.0	0.1			7
8		5.2	9.7	156 *	16	254	62	12	1.7	0.0			8
9		5.1	9.4	89	15	131	84	11	1.5	0.1			9
10		5.6	9.2	60	15	98	67	9.9	1.4	0.1			10
11		7.0	9.3	47	15	79	53	9.7	1.2 *	0.3			11
12		26 *	9.4	80	16	68	48	9.2	1.1	0.6			12
13	N	13	11	66	26	57	43	8.7	0.9	0.5	N	N	13
14	O	16	13	47	18	50	39	8.5	0.9	0.5	O	O	14
15		11	11	39	16	44	36	7.9	0.9	0.4			15
16	F	8.7	11	45	16	40	34 *	7.7	0.9	0.3	F	F	16
17	L	60	11	95 *	15	36	31	7.5	0.9	0.3 *	L	L	17
18	O *	126	11	92	14	33 *	29	7.5	0.9	0.2	O	O	18
19	W	25	11	83	23	30	28	7.6	0.9	0.2	W	W	19
20		14	11	84	23	28	27	7.6	0.9	0.1			20
21		11	11	85	18	26	24	7.1	1.0	0.1			21
22		9.4	31	65	16	24	23	6.6	0.8	0.1			22
23		8.3	26	55	15	23	23	6.1	0.6	0.0			23
24		8.0	20	47	14	21	38	5.6	0.5	0.0			24
25		8.0	18	41	14	20	36	5.2	0.4	0.0			25
26		8.2	17	36	13	20	25	4.8	0.3	0.0			26
27		7.7	381 *	32	13	24	22	4.3	0.3	0.0			27
28		7.3	180	29	13	99	21	3.7	0.3	0.0			28
29		7.1	74	27		63	19	3.5	0.3	0.0			29
30		7.2	55	25		80	18 *	3.6	0.2	0.0			30
31			39	23		64		3.4		0.0			31
MEAN		14.4	40.7	72.6	17.2	110	116	8.8	1.2	0.2			ME
MAX.		126	381	310	26	683	1360	17	3.2	0.6			MA
MIN.		2.2	9.2	23	13	20	18	3.4	0.2	0.0			MI
AC. FT.		856	2505	4465	954	6780	6877	541	73	9			AC.

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN
DISCHARGE
31.9

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
3930	9.97	4	1 2030

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
0.0	1.92	10	1 0015

TOTAL
ACRE FEET
23060

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	26	52	20	22	177	26	4.0				1
2		0.0	112	68	20	398	891	25	3.8				2
3		0.0	36	41	18	579	881	24	3.7				3
4		0.0	18	44	17	579	795	23	3.5				4
5		0.0	13	58	17	410	753	22	3.3				5
6		0.0	10	124	16	210	470	22	3.1				6
7		0.0	8.8	338	16	116	193	21	2.8				7
8		0.0	7.6	360	15	230	98	21	2.6				8
9		0.0	7.0	221	15	252	84	19	2.5				9
10		0.0	6.6	113	14	158	119	18	2.5				10
11		0.0	6.2	76	14	110	82	17	2.2				11
12		0.0	6.0	65	14	90	72	16	2.1				12
13	N	0.0	5.8	96	18	72	52	15	2.0	N		N	13
14	O	0.0	6.0	68	23	56	46	15	2.0	O	N	O	14
15		0.0	6.8	47	17	47	42	14	1.9				15
16	F	0.0	7.2	39	15	43	38	14	1.9	F	F	F	16
17	L	0.0	6.4	49	14	39	36	12	1.8	L	L	L	17
18	O	12.3	6.2	104	14	35	33	12	1.7	O	O	O	18
19	W	35	6.0	100	14	33	32	12	1.6	W	W	W	19
20		16	6.0	84	18	30	31	12	1.3				20
21		10	5.8	98	21	28	30	11	1.2				21
22		7.6	6.4	84	17	26	28	11	0.4				22
23		6.4	13	62	15	25	27	10	0.0				23
24		5.6	14	49	14	24	30	8.8	0.0				24
25		5.0	12	43	14	23	45	7.8	0.0				25
26		4.8	10	37	13	22	40	7.0	0.0				26
27		5.2	150	32	13	22	31	6.6	0.0				27
28		5.6	294	28	12	50	28	5.8	0.0				28
29		5.0	134	25		112	27	5.2	0.0				29
30		4.6	54	24		72	26	4.8	0.0				30
31			38	21		96		4.6					31
MEAN		4.1	33.5	85.5	16	129	175	14.3	1.7				MEAN
MAX.		35	294	360	23	579	891	26	4.0				MAX.
MIN.		0.0	5.8	21	12	22	26	4.6	0.0				MIN.
AC. FT.		244	2060	5256	889	7952	10388	878	103				AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
38.3

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
909		4	2	

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0.0				

TOTAL
ACRE FEET
27770

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE			1952		337.63 USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

**TABLE B-3 (Cont.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.0	2.0	5.0	14	3.6	NR	23	3.0	1.0	0.3			1
2	1.0	2.0	6.6	7.8	3.6	NR	89	3.0	0.5	0.2			2
3	1.0	2.0	3.0	4.8	3.3	NR	83 *	3.0	1.0	0.2			3
4	1.0	2.0	3.0	9.4	3.3	NR	70	3.0	0.5	0.1			4
5	1.0	2.0	2.0	11	3.0	NR	42	3.0	0.5	0			5
6	1.0	2.0	2.0	26	3.0	NR	13	3.0	0.4	0			6
7	2.0	2.0	2.0	53	3.0	11	11	3.0	0.5	0			7
8	2.0	2.0	2.0	39	3.0	45	10	2.0	0.5	0			8
9	1.0	2.0	2.0	14	3.0	22	15	2.0	0.5	0			9
10	1.0	2.0	2.0	10	3.0	14	19	2.0	0.5	0.5			10
11	1.0	2.0	2.0	8.4	3.0	11	10	2.0	0.5	0.5			11
12	1.0	3.0	2.0	9.9	3.7	10	9.3	2.0	0.4	0.3			12
13	1.0	2.0	2.0	9.0	7.9	9.0	8.4	2.0	0.4	0.2	N	N	13
14	1.0	3.0	2.0	7.2	4.8	8.1	7.5	2.0	0.4	0.1	O	O	14
15	1.0	2.0	2.0	6.3	3.3	7.5	7.2	2.0	0.5	0			15
16	1.0	3.0	2.0	6.0	3.0	6.9	6.6	2.0	0.4	0	F	F	16
17	1.0	3.6	2.0	6.6	3.0	6.6	6.3	2.0	0.5	0	L	L	17
18	1.0	8.9	2.0	7.2	3.0	6.0	5.7	2.0	0.5	0	O	O	18
19	1.0	3.3	2.0	7.8	3.3	5.4	5.7	2.0	0.5	0	W	W	19
20	1.0	2.0	2.0	7.2	4.5	5.1	5.4	2.0	0.5	0			20
21	1.0	2.0	2.0	7.5	3.0	4.5	4.8	2.0	0.5	0			21
22	1.0	2.0	3.0	6.6	3.0	4.2	4.2	2.0	0.5	0			22
23	2.0	2.0	3.0	6.0	3.0	4.2	3.9	2.0	0.5	0			23
24	2.0	2.0	2.0	5.7	3.0	3.9	6.3	2.0	0.3	0			24
25	1.0	2.0	2.0	5.1	3.0	3.9	6.9	2.0	0.1	0			25
26	1.0	2.0	4.0	4.8	3.0	3.6	4.8	2.0	0	0			26
27	1.0	2.0	43	4.5	NR	3.9	4.2	1.0	0	0			27
28	1.0	1.0	23	4.5	NR	14	3.9	1.0	0	0			28
29	1.0	2.0	8.1	4.2		8.4	3.6	1.0	0	0			29
30	2.0	2.0	5.1	4.2		7.7	3.0	1.0	0	0			30
31	2.0		4.2	3.6		7.8		1.0		0			31
MEAN	1.2	2.4	4.8	10.4	3.4 E	9.3 E	16.4	2.1	0.4	0.1			MEAN
MAX.	2.0	8.9	43	53	7.9	45	89	3.0	1.0	0.5			MAX.
MIN.	1.0	1.0	2.0	3.6	3.0	3.6	3.0	1.0	0	0			MIN.
AC. FT.	73	142	296	637	177 E	463 E	977	127	25	5			AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
4.0

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
96		4	3	

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
2923

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFs	GAGE HT.	DATE			FROM	TO		
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS
Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	53	89	16	12	NR	28	1.5	0.0			1
2		0.0	54	90	15	NR	NR	27	1.4	0.0			2
3		0.0	40	56	14	NR	NR	25	1.3	0.0			3
4		0.0	22	48	13	NR	NR	24	1.3	0.0			4
5		0.0	16	69	13	NR	NR	23	1.1	0.0			5
6		0.0	13	NR	12	NR	NR	21	1.0	0.0			6
7		0.0	10	NR	11	63	NR	20	0.8	0.0			7
8		0.0	8.6	NR	10	NR	NR	18	0.7	0.0			8
9		0.0	7.8	108	9.6	NR	NR	16	0.7	0.0			9
10		0.0	7.0	75	9.6	NR	75	13	0.6	0.0			10
11		0.0	6.6	56	9.0	NR	52	12	0.7	0.0			11
12		0.0	6.2	60	9.6	NR	43	11	0.8	0.0			12
13	N	0.0	6.2	74	15	NR	40	9	0.8	0.0	N	N	13
14	O	0.0	6.2	56	17	NR	39	8.2	1.0	0.0	O	O	14
15		0.0	6.2	41	13	NR	38	7.4	1.0	0.0			15
16	F	0.0	6.2	40	12	NR	37	6.6	1.2	0.0			16
17	L	0.0	6.6	50	11	NR	35	6.2	1.1	0.0	F	F	17
18	O	7.8	6.6	76	10	NR	35	6.2	1.0	0.0	L	L	18
19	W	48	6.2	90	14	NR	34	6.2	1.1	0.0	O	O	19
20		23	5.8	70	15	NR	34	5.4	1.0	0.0	W	W	20
21		14	6.2	63	20	NR	33	5.4	0.8	0.0			21
22		10	7.4	56	16	NR	33	5.0	0.6	0.0			22
23		7.8	36	45	13	NR	33	4.4	0.7	0.0			23
24		7.0	24	39	13	NR	38	4.1	0.6	0.0			24
25		5.8	17	33	11	NR	59	3.5	0.5	0.0			25
26		5.4	14	28	11	NR	45	2.9	0.5	0.0			26
27		5.0	NR	24	11	NR	37	2.6	0.5	0.0			27
28		4.7	NR	21	11	NR	33	1.8	0.4	0.0			28
29		4.4	98	20		NR	32	1.7	0.2	0.0			29
30		4.1	70	18		NR	30	1.6	0.2	0.0			30
31			48	17		NR		1.5		0.0			31
MEAN		4.9	NR	NR	12.7	NR	NR	23.5	0.9	0.0			MEAN
MAX.		48	98	NR	20	NR	NR	28	1.5	0.1			MAX.
MIN.		0.0	58	17	9.0	NR	NR	1.5	0.2	0.0			MIN.
AC. FT.		292	NR	NR	704	NR	NR	650	51	0			AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
1444

MAXIMUM
DISCHARGE
1444
GAGE HT.
MO. DAY TIME
4 2

MINIMUM
DISCHARGE
0.0
GAGE HT.
MO. DAY TIME
10 1

TOTAL
ACRE FEET
Incomplete

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFs	GAGE HT.	DATE			FROM	TO		
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS
Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.											

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	118	39	33	238	130	62	267	130	126	168	148	162	162
2	112	38	120	238	126	142	1948	114	88	160	138	172	172
3	79	37	134	238	124	695	1049	160	116	124	116	152	152
4	90	36	75	323	122	757	347	184	118	122	134	174	174
5	106	84	59	456	120	332	232	209	112	102	138	152	152
6	101	196	50	660	116	241	186	208	120	118	166	142	142
7	120	222	44	2033	112	158	170	190	142	122	158	138	138
8	162	240	41	1140	110	534	166	172	130	134	132	156	156
9	154	176	38	556	110	486	152	150	124	140	101	154	154
10	122	124	37	398	108	256	158	124	148	162	106	176	176
11	162	92	36	295	102	194	182	142	126	156	130	190	190
12	140	89	70	290	79	142	162	156	112	142	134	174	174
13	122	76	141	338	70	118	140	150	107	172	162	176	176
14	116	60	168	270	76	98	148	130	118	162	130	138	138
15	112	49	138	232	77	86	126	140	122	190	126	144	144
16	107	42	116	208	73	78	112	138	106	170	142	142	142
17	110	40	106	210	68	80	114	146	89	158	156	122	122
18	103	40	100	220	66	130	116	146	144	130	148	112	112
19	76	37	96	250	67	86	120	162	126	150	158	100	100
20	55	34	95	246	67	91	158	178	116	140	152	132	132
21	52	45	96	216	69	110	184	184	122	132	146	142	142
22	50	45	104	204	71	98	178	180	164	116	166	128	128
23	52	39	108	190	61	96	158	154	146	152	164	136	136
24	48	37	122	176	59	102	198	160	158	148	154	130	130
25	45	35	118	168	57	90	198	158	154	130	162	110	110
26	42	34	108	160	53	116	180	160	116	132	206	174	174
27	41	32	NR	152	49	134	184	332	140	92	176	122	122
28	40	31	NR	144	47	110	182	320	158	116	170	107	107
29	40	30	NR	140		130	166	146	130	92	190	160	160
30	40	29	350	136		178	160	132	152	120	156	140	140
31	40		268	132		295		120		164	168		
MEAN	88.9	70.3	106 E	343	85.3	201	261	167	218	139	149	145	145
MAX.	162	240	350 E	2033	130	757	1948	332	158	190	206	190	190
MIN.	40	29	33 E	132	47	62	112	114	88	92	101	100	100
AC. FT.	5468	4181	5892E	21118	4739	12347	15553	10264	7596	8561	9189	8642	8642

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
164 E	2592		4	2		29		11	30		113600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 34	120 26 38	SW21 7S 14E	5,542	17.35	2-11-73	NOV 56-DATE		1956		75.00	ASSUMED
Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	106	24	28	317	110	14	361	98	52	78	130	101	1
2	114	24	32	449	109	34	650	99	67	90	144	146	2
3	101	23	97	494	106	370	747	65	88	47	120	134	3
4	84	22	50	542	105	591	418	116	103	82	110	104	4
5	112	22	36	592	101	358	224	182	100	88	111	94	5
6	121	103	29	644	99	233	164	146	95	56	84	88	6
7	248	150	27	698	95	139	115	142	88	61	48	86	7
8	509	265	25	768	93	320	101	110	66	81	36	115	8
9	318	138	23	705	91	566	80	112	67	144	42	115	9
10	200	93	23	477	90	254	69	112	75	246	96	81	10
11	176	66	22	345	90	122	94	78	65	256	124	83	11
12	167	57	37	299	83	8	101	109	46	234	104	77	12
13	129	54	79	348	74 E	61	57	83	32	255	107	75	13
14	109	45	108	301	65 E	68	63	58	59	209	115	46	14
15	96	39	77	241	70	43	28	56	69	171	142	101	15
16	84	35	60	209	67	36	0	89	88	141	135	124	16
17	113	34	54	199	61	47	16	75	71	93	92	97	17
18	100	44	51	204	56	90	37	58	74	64	72	79	18
19	60	32	49	224	53	49	101	63	83	49	94	79	19
20	40	29	47	249	54	24	92	92	65	117	102	114	20
21	31	29	50	209	49	43	88	72	94	67	135	119	21
22	27	32	72	185	50	37	86	72	88	68	123	126	22
23	43	29	62	173	44	12	57	123	110	70	106	133	23
24	96	27	61	157	35	20	138	134	142	85	126	63	24
25	33	27	62	146	34	37	99	99	133	71	165	80	25
26	29	27	55	138	30	47	56	141	119	54	187	104	26
27	27	27	421 E	131	16	90	48	138	94	72	135	117	27
28	26	26	1000 E	124	10	155	109	93	113	95	119	120	28
29	26	25	772 E	119		119	115	69	65	81	106	119	29
30	25	26	374	119		202	70	66	65	83	61	114	30
31	25		227	114		229		46		110	65		31
MEAN	109	52	133 E	320	69	143	146	97	83	110	108	101	MEAN
MAX.	509	265	1000 E	768	110	591	747	182	142	256	187	146	MAX.
MIN.	25	22	22	114	10	8	0	46	32	47	36	46	MIN.
AC. FT.	6694	3122	8152	19676	3848	8763	8696	5943	4911	6780	6617	6018	AC. FT.

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
123	768	8.10	1	8		0	0.81	4	16		90220

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 15 21	120 39 08	NE 9 8S 12E				1930-					
Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.											
Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.											
Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff records dating back to 1947 are published in Bulletin No. 13D-69.											

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1			4.5	125	3.0	1.0	91	0.4					
2			3.4	41	2.6	13	484 *	0.2					
3			42	17	2.2	171	61	0.0					
4			30	61	1.9	60	25	0.0					
5			0.0	69	1.8	19	16	0.0					
6			0.0	359	1.7	12	10	0.0					
7			0.0	581	1.5	9.0	7.0	0.0					
8			0.0	168	1.3	228	6.1	0.0					
9			0.0	74	1.2	53	5.8	0.0					
10			0.0	40	1.2	23	10	0.0					
11			0.0	28	1.1	16	6.4	0.0					
12			0.0	60	1.3	13	4.3	0.0					
13	N	N	0.0	38	2.8	9.5	3.6	0.0	N	N	N	N	
14	O	O	0.0	23	3.2	7.0	3.0	0.0	O	O	O	O	
15			0.0	18	2.6	6.1	2.6	0.0					
16	F	F	0.0	18	1.6	5.2	2.0	0.0	F	F	F	F	
17	L	L	0.0	18	1.4	4.6	1.8	0.0	L	L	L	L	
18	O	O	0.0	18	1.2	3.8	1.6	0.0	O	O	O	O	
19	W	W	0.0	32	1.5	3.4	1.6	0.0	W	W	W	W	
20			0.0	18	2.6	3.0	1.6	0.0					
21			0.0	14	2.8	2.2	1.3	0.0					
22			3.3	11	1.6	1.9	1.2	0.0					
23			0.4	9.0	1.3	1.8	1.1	0.0					
24			0.0	8.0	1.1	1.7	1.7	0.0					
25			0.0	6.7	1.0	1.7	2.6	0.0					
26			0.0	6.1	0.9	1.6	1.8	0.0					
27			356	5.2	0.8	1.6	1.1	0.0					
28			206	4.6	0.8	4.7	0.8	0.0					
29			40	3.8		7.0	0.7	0.0					
30			17	3.6		5.2	0.6	0.0					
31			12	3.2		24		0.0					
MEAN			23	60.7	1.7	23	25.2	0					
MAX.			356	581	3.2	228	484	0.4					
MIN.			0	3.2	0.8	1.0	0.6	0.2					
AC. FT.			1417	3731	92	1416	1502	0					

E — ESTIMATED

NR — NO RECORD

\* — DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# — E AND \*

MEAN
DISCHARGE
11.3

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
1122		4	2	

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
8162

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE			1950		260.60 USCGS
Station located 0.5 mile downstream from Burna Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	45	46	53	637	1180	40 *	362	136 *	35	24	29 *	67	1
2	51 *	43	69	595	1010	40	552	118	33	25	26	76	2
3	67	38	93 *	583	908	71	1480	94	36	21 *	30	90	3
4	63	36	184	484	572	577	3080 *	78	41	22	33	89 *	4
5	51	31 *	138	527	400	1820	2620	83	52	20	30	87	5
6	59	24	112	655	325	1770	1900	106	61	18	29	95	6
7	97	42	78	822 *	279	1170 *	1430	116	56	20	26	96	7
8	283	169	62	1730	225	743	1080	107	56	21	25	93	8
9	453	196	57	2050	216	772	758	77	46	20	27	101	9
10	426	167	53	1900	212	840	668	58	40	21	26	93	10
11	341	135	54	1400	204	795	550	51	39	47	27	88	11
12	247	113	55	1010	206	512	567	46	41	71	31	87	12
13	243	102	66	809	186	331	520	42	40	111	33	76	13
14	238	58	159	695	159	179 *	343	43	38	115	35	71	14
15	205	48	186	598	148 *	129	273	39	37	100	38	71	15
16	172	47	156	542 *	142	103	324	35 *	36	65	42	86	16
17	155	47	132	452	127	88	318	42	32	51	52	103	17
18	154	59	129	377	117	80	272	43	33	50	51	105	18
19	151	73	86	604	107	82	191 *	45	34	43	48	104	19
20	132	70	65	1160	98	66	140	46	35	36	52	98	20
21	116	66	74	1280 *	95	55	125	52	35	30	58	102	21
22	71	65	256	1350	78	58	106	47	31	23	66	99	22
23	51	61	381	1510	69	54	104	43	30	24	71	94	23
24	44	51	326	1560	62	44	103	62	32	30	58	93	24
25	64	54	213	1840	57	42	92	78	35	31	60	82	25
26	96	54	173	1080	53	44	88	76	33	29	80	84	26
27	81	58	205	1240	50	48	80	79	32	25	103	93	27
28	70	57	712	1190	43	113	83	70	32	21	80	136	28
29	63	53	1570	1130		247	106	55	28	21	69	157	29
30	57	53	1420	1110		224	128	45	29	25	78	161	30
31	50		974	1160 *		290		37		29	68		31
MEAN	142	70.5	267	1035	262	369	615	66.1	38	38.4	47.8	95.9	MEAN
MAX.	453	196	1570	2050	1180	1820	3080	136	61	115	103	161	MAX.
MIN.	44	24	53	377	43	40	80	35	28	18	25	67	MIN.
AC. FT.	8719	4196	16450	63630	14540	22670	36580	4064	2257	2358	2938	5706	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
251	3210	70.80	4	4	1345	18	60.78	7	6	1730	184100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
37 17 42	120 50 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.											

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B00975	PANOCHÉ DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	19 *	36	27	29	28	59	33	48	57	63 *	62	49	1
2	20	37	25	21 *	27	57	35	46	63	55	61	40	2
3	21	33	24 *	28	28	60	30 *	48	67	57	57	40 *	3
4	22	28	21	37	32	58	32	51	68	61	57	45	4
5	20	36 *	20	33	32	59	44	51	63	67	50	42	5
6	26	37	22	23	34	57	40	53	56	61	49 *	45	6
7	36	30	22	35	38	61	40	51	50	61	49	46	7
8	38	28	19	40	37	67	37	52	48	63	50	45	8
9	32	29	21	31	37	62	38	48	49	64	54	41	9
10	23	33	22	25	44	57	45	47	48	70	56	40	10
11	27	42	27	25	45	54 *	42	48	47	68	64	40	11
12	28	36	25	25	46	57	41	49	49	78	70	41	12
13	24	33	40	25	51	57	46	51	54	83	62	46	13
14	22	35	29	26	50	59	46	54	57 *	80	64	41	14
15	22	35	30	26	56 *	59	47 *	59 *	58	81	62 *	33	15
16	23	41	27	26	60	57	48	66	60	71	64	36	16
17	24 *	41	34 *	26	62	55	49	66	62	72	53	39	17
18	28	37	34	28	63	55	46	63	60	65	49	35	18
19	32	35 *	41	28	63	52	48	66	65	62	48	30 E	19
20	31	32	36	30	61	52	49	68	64	61	46	30 E	20
21	24	35	37	29	76	52	51	65	57	60	49	30 E	21
22	28	34	41	31	67	52	53	68	56	67	50	29 E	22
23	28	34	27	33	66	52	57	70	61	66 *	64	31 E	23
24	28	31	27	32	61	47	48	64	58	67	71	25 E	24
25	30	41	28	31	58	48	41	61	51	60	68	26 E	25
26	28	38	40	35	59	46	41	64	54	58	75	29 E	26
27	36	38	42	33	56	38	42	68	56	67	62	26 E	27
28	39	37	43	28	56	51	45	66	59	76	55	25 E	28
29	45	42	24	31		48	49	63	51	77	56	26 E	29
30	36	33	19	26 *		48	44 *	67	53	70	55	26 E	30
31	33		21	30		38		60 *		60	52		31
MEAN	28.2	35.2	28.9	29.2	49.8	54.0	43.6	58.1	56.7	66.8	57.5	35.9	MEAN
MAX.	45	42	43	40	76	67	57	70	68	83	75	49	MAX.
MIN.	19	28	19	21	27	38	30	46	47	55	46	25	MIN.
AC. FT.	1732	2097	1775	1797	2763	3320	2592	3572	3374	4108	3539	2136	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
45.3	84	6.15	7	13	1200	16	1.86	10	1		31806

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 55 25	120 41 19	NW 5 12S 12E	69. 89. <sup>a</sup>	9.19 9.25	11-24-65 2-13-73	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL
Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).											
a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	196	83	138	145	143	220 *	336 *	154 *	134	119	134 *	186	1
2	138 *	79	140	146 *	155	190	332	147	150	134	106	209	2
3	91	65	138 *	145	180	209	346	152	155 *	103 *	126	206	3
4	92	43	133	148	169	265	403	146	143	99	121	192 *	4
5	93	38 *	127	148	163	262	409	146	123	105	116	181	5
6	109	46	110	147	162	241	346	171	80	125	136	148	6
7	112	58	105	158	155	245	301	149	86	139	125	136	7
8	140	76	105	208	146	298	285	113	115	156	105	121	8
9	123	92	92	242	131	342	260	107	119	169	100	125	9
10	88	95	89	236	131	350	243	114	129	179	120	100	10
11	69	89	89	216	139	311	240	113	144	198	121	82	11
12	66	93	103	200	141	291	231	107	93	231	131	69	12
13	84	82	104	187	162	266	207	112	98	222	120	78	13
14	76	91	111	181	182	269 *	178	97	75	197	114	88	14
15	85	102	111	181	189	269	193	81	103	200	117	88	15
16	76	120	108	181	206	258	170	67	109	145	109	112	16
17	56	121	109	181	191	257	151	71	129	117	118	151	17
18	46	116	108	179	187	255	134	130	169	111	135	123	18
19	48	109	113	177	206	257	143	135	154	105	143	125	19
20	56	119	113	180	216	249	175	141	148	120	148	127	20
21	70	117	122	198	211	239	215	173	157	118	169	131	21
22	87	112	137	198	179	226	218	165	149	119	171	127	22
23	88	113	139	184	179	211	199	159	147	110	163	125	23
24	82	112	137	193	188	213	155	177	141	128	153	107	24
25	70	112	134	209	197	224	151	175	148	119	156	98	25
26	67	113	133	187	229	243	166	185	148	90	152	103	26
27	75	119	143	169	229	264	174	181	114	102	152	107	27
28	85	121	162	161	210	298	171	192	116	93	154	127	28
29	86	128	188	156		379	176	156	102	110	153	156	29
30	90	134	183	153		384	166	147	117	110	184	170	30
31	94		149	144 *		362		131		132	199		31
MEAN	88.3	96.6	125	179	178	269	229	139	127	136	137	130	MEAN
MAX.	196	134	188	242	229	384	409	192	169	231	199	209	MAX.
MIN.	46	38	89	144	131	190	134	167	75	90	100	69	MIN.
AC. FT.	5431	5748	7682	10980	9870	16560	13630	8517	7527	8340	8432	7732	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
153	431	67.57	4	4	2300	36	63.89	11	5	0815	110500

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 14 52	120 51 04	SE10 8S 10E	537	70.35a 69.62	6-10-69 2-14-73	MAR 68-DATE			1968		0.00 USCGS
Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Drainage area is 227 square miles.											
a This maximum gage height of record was affected by backwater and does not represent the maximum discharge.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	852580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.3	16	8.7	4.7	25	196	3.5	1.4	0.3 *	0.3	0.3	1
2	0.1	0.3	8.7	4.5	4.4	68	55 *	3.2	1.3	0.3	0.3 *	0.3	2
3	0.1 *	0.4	3.8	3.6	4.2	30	26	3.1	1.3	0.3	0.3	0.3	3
4	0.2	0.5	3.3 *	4.1	4.1	21	17	2.7	1.3	0.3	0.3	0.3	4
5	0.2	0.5	1.8	5.0	4.3	18 *	12	2.8	1.5	0.3	0.3	0.2	5
6	0.2	0.6	1.1	5.3	4.0	17	7.3	2.8	1.3	0.3	0.3	0.2	6
7	0.4	0.6	1.0	6.9	4.1 *	28	5.9	2.6 *	1.2 *	0.3	0.3	0.2	7
8	0.5	0.5	1.1	7.5	2.3	23	6.8	2.5	1.2	0.4	0.3	0.2	8
9	0.3	0.5	0.9	6.7 *	3.4	18	13	2.4	1.1	0.7	0.3	0.2	9
10	0.3	0.7	0.8	5.9	3.3	12	12	2.3	1.0	0.7	0.3	0.2 *	10
11	0.3	1.0	0.9	7.4	3.2	13	6.4	2.1	0.9	0.6	0.3	0.2	11
12	0.3	2.9	0.9	17	3.4	8.4	3.1	2.2	0.9	0.5	0.3	0.2	12
13	0.3	1.1 *	6.1	17	3.8	8.0	3.8	2.2	0.8	0.5	0.3	0.2	13
14	0.3	1.3	5.2	16	3.7	6.4	4.7	2.1	0.8	0.4	0.3	0.2	14
15	0.3	0.6	1.2	11	3.3	6.9	4.4	2.1	0.8	0.3	0.3	0.2	15
16	0.3	0.7	0.9	14	3.3	6.6	4.1	2.2	0.8	0.3	0.3	0.2	16
17	0.3	5.2	0.9	28	3.2	6.2	3.9	2.2	0.8	0.4	0.3	0.2	17
18	0.3	8.1	1.0	24	3.1	6.0	5.5	2.2	0.8 *	0.4	0.3	0.2	18
19	0.3	1.5	0.8	20	9.5	5.6	3.2	2.3	0.8	0.3	0.3	0.2	19
20	0.3	1.0	0.8	19	6.9	5.1	3.0	2.1 *	0.8	0.3	0.3	0.2	20
21	0.3	0.8	6.5	10	1.7 *	4.8	3.4	2.0	0.7	0.3	0.3	0.2	21
22	0.4	0.8	8.3	5.8	1.7	4.8	3.3	2.0	0.7	0.3	0.3	0.1	22
23	1.0	0.7	4.1	8.0	2.0	4.6	3.6	2.0	0.6	0.3	0.2	0.1	23
24	0.4	0.7	3.9	7.4	3.1	4.5	16	1.9	0.5	0.3	0.2	0.1	24
25	0.3	0.7	3.3	6.6	3.1	4.5	8.4	1.8	0.5	0.3	0.2	0.2	25
26	0.3	0.7	2.6	5.9	3.2	4.4	5.0	1.8	0.5	0.3	0.2	0.2	26
27	0.3	0.7	40	5.4	3.2	6.8	4.8	1.6	0.5	0.3	0.2	0.2	27
28	0.3	0.6	27	5.3	5.0	15	4.4	1.5	0.4	0.3	0.2	0.1	28
29	0.3	0.6	17	5.0		11	3.9	1.4	0.4	0.3	0.2	0.1	29
30	0.4	0.6	13	4.7		13	3.6	1.5	0.4	0.3	0.2	0.1	30
31	0.4		12	4.5		9.6		1.5		0.3	0.2		31
MEAN	0.3	1.2	6.3	9.7	3.8	13.4	15.0	2.2	0.9	0.4	0.3	0.2	MEAN
MAX.	1.0	8.1	40	28	9.5	68	196	3.5	1.5	0.7	0.3	0.3	MAX.
MIN.	0.1	0.3	0.8	3.6	1.7	4.4	3.0	1.4	0.4	0.3	0.2	0.1	MIN.
AC. FT.	19	70	387	595	209	824	892	136	52	22	17	12	AC. FT.

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW

# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
4.5	591	6.33	4	1	1515	0.0	1.12	10	1	2030	3235

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.R. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments. Drainage area is 7.4 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.6	48	19	5.5	52	387	5.7	1.4	0.4 *	0.2	0.0	1
2	0.0	0.6	12	13	5.0	198	187 *	5.5	1.3	0.4	0.2 *	0.0	2
3	0.0 *	0.7	5.5	10	4.6	102	51	5.2	1.2	0.3	0.1	0.0	3
4	0.0	0.7	3.7 *	9.4	4.4	60	28	5.0	1.1	0.3	0.1	0.0	4
5	0.1	0.7	2.8	11	4.3	37 *	19	4.7	1.1	0.3	0.1	0.0	5
6	0.1	1.1	2.3	34	4.0	25	15	4.5	1.0	0.3	0.1	0.0	6
7	0.6	1.1	2.0	73	3.8 *	36	12	4.2 *	1.0 *	0.3	0.1	0.0	7
8	1.2	0.9	1.8	42	3.6	74	11	4.0	0.9	0.3	0.1	0.0	8
9	0.5	0.9	1.8	26 *	3.6	41	14	3.7	0.9	2.4	0.1	0.0	9
10	0.4	1.2	1.7	18	3.5	27	12	3.6	0.9	1.9	0.1	0.0	10
11	0.4	2.0	2.0	15	3.4	21	9.9	3.4	0.9	1.2	0.1	0.0	11
12	0.3	8.6	1.8	37	4.1	17	8.9	3.2	0.8	1.0	0.1	0.0	12
13	0.2	3.7 *	3.2	24	4.2	14	8.3	3.1	0.7	0.9	0.1	0.1	13
14	0.3	6.4	3.2	16	3.5	12	7.5	3.0	0.7	0.7	0.2	0.1	14
15	0.2	2.7	2.5	13	3.4	11	6.9	2.9	0.7	0.6	0.1	0.1	15
16	0.2	2.4	2.2	13	3.4	9.9	6.5	2.9	0.9	0.5	0.1	0.1	16
17	0.2	8.5	2.3	31	3.3	8.8	6.1	2.9	0.9	0.5	0.1	0.1	17
18	0.2	15	2.3	27	3.3	8.4	6.2	2.8	0.7 *	0.5	0.1	0.1	18
19	0.2	6.0	2.1	23	7.3	7.6	5.8	2.6	0.7	0.4	0.1	0.1	19
20	0.3	3.4	2.0	24	7.3	6.9	5.7	2.5	0.8	0.4	0.1	0.1	20
21	0.3	2.6	4.9	20	5.9	6.3	5.4	2.4	0.8	0.4	0.2	0.0	21
22	0.4	2.1	23	16	5.6	6.1	5.2	2.3	0.7	0.4	0.1	0.0	22
23	2.7	1.8	8.4	13	5.1	5.9	5.9	2.1	0.6	0.3	0.1	0.0	23
24	1.0	1.8	5.6	11	4.8	5.6	20	2.0	0.6	0.3	0.1	0.0	24
25	0.7	1.7	4.2	10	4.6	5.5	14	1.9	0.6	0.3	0.1	0.0	25
26	0.7	1.8	5.6	8.9	4.4	5.3	10	1.8	0.6	0.2	0.1	0.0	26
27	0.6	1.6	155	7.8	4.3	6.2	8.2	1.5	0.5	0.2	0.1	0.0	27
28	0.6	1.5	49	7.2	4.3	18	7.3	1.5	0.5	0.2	0.1	0.0	28
29	0.6	1.5	33	6.6		13	6.4	1.5	0.5	0.3	0.1	0.0	29
30	0.6	1.5	30	6.3		22	5.9	1.5	0.4	0.2	0.0	0.0	30
31	0.6		15	5.7		19		1.5		0.2	0.0		31
MEAN	0.5	2.8	14	19.1	4.5	28.4	29.9	3.1	0.8	0.5	0.1	0.0	MEAN
MAX.	2.7	15	155	73	7.3	198	387	5.7	1.4	2.4	0.2	0.1	MAX.
MIN.	0.0	0.6	1.7	5.7	3.3	5.3	5.2	1.5	0.4	0.2	0.0	0.0	MIN.
AC. FT.	28	169	871	1172	247	1748	1777	189	48	33	7	2	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
8.7	984	5.45	4	1	2100	0.0	2.43	10	1	0000	6291

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	231	163	210	1030	1510	290 *	674	319 *	212	162	178 *	262
2	235 *	153	221	862	1360	281	816	301	206	174	171	265
3	192	144	234 *	882	1290	276	1220	271	217	164 *	161	304
4	177	127	263	796	1010	521	2310 *	240	218	150	180	296 *
5	166	104 *	288	749	763	1510	2400 *	234	220	141	179	285
6	167	97	253	850	618	1930	2130	264	198	150	182	264
7	190	107	221	952 *	541	1650	1780	304	189	167	182	256
8	287	190	192	1490	465 *	1200	1510	264	188	182	171	249
9	363	270	176	2110	417	1090	1190	224	202	199	157	233
10	382	270	162	2170	399	1220	1040	196	205 *	218	156	225
11	389	248	161	1960	390	1240	912	186	229	244	162	193
12	321	232	169	1590	400	1030	862	183	202	285	168	166
13	306	221	185	1300	387	766	864	182	177	324	163 *	158
14	301	203	221	1140	390	565 *	675	177	151	360	161	162
15	293	187	302	1020	376	462	536	168	140	338	169	162
16	270	192	292	965	376	414	532	156	159	311	167	187
17	237	200	262	882	383	374	540	137	169	231	170	229
18	207	207	257	769	377	357	485	163	185	215	188	241
19	207	219	239	777	347	350	419 *	188	208	204	207	226
20	197	232	203	1290	352	336	358	199	210	202	203	234
21	196	238	207	1580	351	310	354	220	214	199	225	234
22	191	218	294	1680	343	299	361	251	214	193	246	240
23	179	202	481	1790	306	286	344	237	203	169	263	242
24	165	193	496	1850	288	263	329	222	197	191	246	228
25	166	185	411	2070	288	268	295	251	206	191	228	199
26	173	191	345	1700	292	282	297	275	218	160	229	195
27	183	189	353	1590	314	301	300	293	198	162	262	194
28	183	197	607	1560	302	341	288	299	179	153	251	231
29	177	194	1330	1500		490	290	278	172	149	223	287
30	170	200	1680	1450		601	314	248	157	151	242	320
31	170		1390	1450		626		219		159	269	
MEAN	228	192	390	1349	523	643	814	231	195	203	199	232
MAX.	389	270	1680	2170	1510	1930	2400	319	229	360	269	320
MIN.	165	97	161	749	288	263	288	137	140	141	156	158
AC. FT.	14030	11450	24010	82920	29030	39530	48450	14180	11590	12490	12220	13820

E — ESTIMATED  
 NR — NO RECORD  
 \* — DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # — E AND \*

MEAN DISCHARGE
433

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
2490	63.14	4	5 0230

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
96	54.98	11	6 0345

TOTAL ACRE FEET
313700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73
								1957	1959	-3.77
								1959		0.00
										USCGS
										USCGS
										USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevenson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records were published in U. S. Geological Survey report "Surface Water Records of California" prior to 1972.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

LE B-3 (Cont.)

MEAN DISCHARGE

C FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974 *	805170	MERCED RIVER BELOW SNELLING

DOCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
123	26	707	1730	1390	399	284	888	740	148	157	127	1
122 *	24	691	1560 *	1380	404	279 *	830 *	724	150 *	145 *	124	2
119	22	686 *	1430	1390	434	251	707	708 *	145	153	119	3
121	23	687	1470	1080	873	232	629	696	148	172	116 *	4
122	24	697	1440	770	1450 *	233	630	706	154	166	130	5
109	34	690	1540	783 *	1440	230	636	731	160	170	159	6
266	170	686	1570	778	1180	236	701	1460	166	168	157	7
396	147	686	1460	714	907	246	732	3210	177	158	153	8
413	258 *	678	1420	456	420	259	719	3180	174	153	143	9
422	418	625	1420	423	396	234	710	2180 *	174	147	127	10
308	408	346	1410	584	668	265	707	927	177	145	108	11
176	400	280	1410	678	604	259	716	907	175	151	111	12
154	390	410	1390	576	292	257	690	1070	170	155	112	13
155	392	623	1390	583	277	245	688	1760	172	145	106	14
167	393	632	1380 *	557	277	217	676	1450	160	154	110	15
107	517	631	1390	432	234	274	684	878	168	138	106	16
123	877	633	1390	422	236	257	701	791	192	162	108	17
178	1230	634	1390	484	252 *	253	693	497	180	158	111	18
180	1970	632	1390	543	277	265	672	164	178	163	110	19
183	1770 *	636	1380	454	264	278	679	151	197	163	115	20
186	1230	648	1380	449	250	282	700	138	191	147	116	21
187	979	644	1380	442	235	283	555	128	190	141	120	22
191	936	639	1380	436	228	279	361	147	179	144	123	23
167	962	630	1380	419	215	287	335	145	171	154	123	24
78	981	634	1380	416	194	287	312	146	166	147	100	25
183	977	644	1380	422	201	745	318	131	184	150	100	26
186	833	1320	1380	408	218	1100	314	127	182	151	111	27
121	666	1760	1390	375	248	1090	309	142	182	143	123	28
31	659	1710	1380	256	256	1040	558	154	176	138	129	29
28	674	1700	1380	254	254	945	760	157	177	130	132	30
26		1680	1380	239	239		733		174	125		31
172	613	784	1424	637	446	380	624	812	172	151	121	MEAN
422	1970	1760	1730	1390	1450	1100	888	3210	197	172	159	MAX.
26	22	280	1380	375	194	217	309	127	145	125	100	MIN.
10570	36480	48200	87570	35390	27420	22600	38370	48290	10590	9308	7198	AC.FT.

ATED  
CORD  
ARGE MEASUREMENT OR  
IVATION OF NO FLOW  
\*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
528	3270	11.53	6	10	0515	21	5.41	11	3	2200	382000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO	
30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12 USGS

Station located 0.2 mile downstream from Merced-Snellings highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	212	265	695	1727	1444	420	370	883	746	185	150 *	202	
2	191 *	265	699	1780 *	1439	432	539 *	867 *	779	171 *	141	198	
3	181	260	681 *	1493	1439	498	473	775	757 *	165	139	187	
4	189	248	681	1473	1434	615	386	691	746	161	148	183 *	
5	198	248	681	1498	958	1167 *	361	646	738	161	163	177	
6	217	248	684	1588	852 *	1362	345	632	746	163	154	183	
7	244	314	677	2037	840	1362 *	337	632	802	175	143	208	
8	441	476	681	1882	809	1187	343	670	2080	189	146	215	
9	464	473 *	677	1548	674	879	351	667	2927	200	154	206	
10	492	480	681	1493	514	523	345	667	2967 *	221	152	208	
11	510	492	552	1478	489	489	329	660	1350	206	161	208	
12	370	498	361	1488	709	794	356	653	903	212	171	191	
12	286	483	317	1493	665	531	353	674	832	195	157	195	
14	255	483	473	1473	608	397	345	653	1300	187	159	202	
15	244	476	605	1463	605	375	329	642	1649	183	161	198	
16	246	483	615	1459	545	361	314	639 *	1060	171	177	195	
17	255	685	618	1459	480	335	343	642	813	165	177	183	
18	397	964	622	1463	461	340 *	337 *	667	670	179	189	185	
19	501	1506	618	1508	575	359	319	688	389	181	195	177	
20	514	1871 *	615	1493	533	361	337	681	262	187	198	185	
21	523	1551	629	1454	489	359	351	691	232	187	202	200	
22	536	1088	656	1459	489 *	335	356	706	208	183	185	206	
22	555	956	635	1449 *	476	311	345	520	210	181	173	208	
24	565	931	635	1444	464	301	356	441	210	169	179	200	
25	589 *	931	629	1449	452	291	364	426	198	159	183	200	
26	397	935	635	1449	449	282	382	426	189	146	185	187	
27	533	927 *	839	1454	446	262	923	435	181	154	187	183	
28	555	735	1688	1449	423	301 *	1086	409	175	161	189	189	
29	392	660	1759	1449		335	1064	403	173	173	187	210	
20	304	656	1706	1439		345	1018	657	175	157	191	215	
21	279		1670	1444		351		731		157	208		
MEAN	372	686	765	1524	705	525	449	631	816	177	171	196	
MAX.	565	1871	1759	2037	1444	1362	1086	883	2967	221	208	208	
MIN.	181	248	317	1439	423	262	314	403	173	146	139	177	
AC. FT.	22880	40840	47040	93690	39180	32250	26690	38820	48530	10880	10520	11670	

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
584	3060	17.80	6	10	1800	135	10.73	8	7		423000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24 86.23	USCGS USCGS
Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.											
a Reflects present datum.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B00525	MUSTANG CREEK NEAR BALICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0 *	0.0	0.0	6.0		0.0	0.0	0.1	0.0	0.0	0.0	0.1	1
2	0.0	0.0	0.0	3.5 *		0.0	0.4 *	0.0 *	0.0	0.0 *	0.0 *	0.0	2
3	0.0	0.0	0.0 *	1.6		1.8	1.4	0.0	0.0 *	0.0	0.1	0.0	3
4	0.0	0.0	0.0	2.3		3.8	0.4	0.1	0.0	0.0	0.0	0.0 *	4
5	0.0	0.0	0.0	3.5		1.1 *	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	NR	3.7		0.7	0.0	0.0	0.0	0.0	0.0	0.0	6
7	1.4	0.0	NR	13 *		0.4 *	0.0	0.0	0.0	0.2	0.0	0.0	7
8	18	0.0	NR	9.3		0.6	0.0	0.0	0.0	0.0	0.3	0.0	8
9	5.4	0.0 *	NR	3.2		1.6	0.0	0.0	0.0	0.0	0.0	0.0	9
10	1.1	0.0	NR	1.5		0.7	0.0	0.2	0.0	0.3	0.0	0.0	10
11	1.0	0.0	NR	1.0		0.3	0.0	0.4	0.0	0.1	0.0	0.0	11
12	1.0	0.0	NR	1.4		0.1	0.0	0.0	0.0	0.0	0.0	0.0	12
13	1.2	0.0	NR	1.4		0.0	2.6	0.0	0.0	0.0	0.0	0.0	13
14	0.3	0.0	NR	0.8	N	0.0	1.9	0.0	0.0	0.0	0.0	0.0	14
15	0.3	0.0	NR	0.4 *	O	0.0	2.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0 *	0.0	NR	0.3		0.0	0.3	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	NR	0.1	F	0.0	0.0	0.0	0.0	0.0	0.0	0.4	17
18	0.0	0.0	NR	0.1	L	0.0 *	0.2 *	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.6	NR	0.4	O	0.0	0.1	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.6 *	0.0 *	0.4	W	0.0	0.0	0.0	0.0	0.7	0.0 *	0.0	20
21	0.0	0.6	0.0	0.2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.4	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.1	0.4	0.0		0.0	0.0	0.0	0.0	0.2	0.3	0.2	23
24	0.0	0.1	0.3	0.0		0.0	0.0	0.0	0.0	0.0	0.1	0.0	24
25	0.0	0.1	0.3	0.0		0.0	0.0	0.0	0.1	0.0	0.0	0.0	25
26	0.0	0.1	0.3	0.0		0.0	0.0	0.0	0.4	0.0	0.0	0.0	26
27	0.0	0.0	56	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	33	0.0		0.1 *	0.0	0.0	0.0	0.6	0.0	0.0	28
29	0.0	0.0	7.9	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	2.7	0.0		0.0	0.0	0.0	0.0	2.3	0.0	0.0	30
31	0.0	0.0	1.3	0.0		0.0	0.0	0.0	0.0	0.6	0.0	0.0	31
MEAN	1.0	0.9	3.3	1.7		0.4	0.3	0.0	0.0	0.2	0.0	0.0	MEAN
MAX.	18	0.6	56	13		3.8	2.6	0.4	0.4	2.3	0.3	0.4	MAX.
MIN.	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	59	5	203	107		22	19	2	1	10	2	1	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
0.6	113	3.01	12	27	1600	0		10	1		431

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65 -DATE		1965		0.00	LOCAL
Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map). Drainage area is 11 square miles.											
a Discharge measurements and partial gage height records are available in DWR files.											

**TABLE B-3 (Cont.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B08735	ORESTIMBA CREEK BELOW HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.4	0.0	0.0	0.0	1.3	40 *	89 *	17	7.6	16	26	10
2	0.0	0.0	0.0	0.0	1.6	155	147	17 *	13	17	20	3.3
3	0.0 *	0.0	0.0	0.0	2.8	383	130	15	8.7	13 *	14	4.3
4	0.0	0.0	0.0	0.0	3.6	207	118	14	4.6	9.7	13	5.8
5	0.0	0.0	0.0	52	2.7	117	53	13	7.1	11	12 *	5.3 *
6	0.0	0.0	0.0	91	3.1	91	51	14	29	14	13	5.3
7	2.7	0.0	0.0	119 *	2.4	95	48	11	27	32	37	6.3
8	52	0.0	0.0	248 *	1.8	94	41	32	52	56	27	1.7
9	31	0.3	0.0	116	3.0	21	16	15	89	40	18	2.3
10	47	0.0	0.0	52	3.1	27	34	18	53 *	72	16	5.8
11	37	0.0	0.0	18	4.1	59	48	35	32	40	17	13
12	26	0.0	0.0	10	5.0	12	32	26	9.1	33	32	14
13	16	0.0	0.0	10	5.5	8.7	12	66	13	24	15	11
14	15	0.0	0.0	5.1	7.6	8.3	21	101	11	13	12	22
15	8.1	0.0	0.0	1.5	7.5 *	8.1	25	73	13	16	13	60
16	3.6	0.0	0.0	0.1	5.4	8.1	4.8	19	13	13	26	28
17	3.0	0.0	0.0	0.0	5.0	19	5.9 *	18	14	13	36	57
18	7.0	0.0	0.0	31	6.3	29 *	24	89	45	14	44	53
19	8.1	0.0	0.0	20	4.3	21	62	31	33	17	46	76
20	0.3	0.0	0.0	17	4.9	7.2	25	16	8.4	13	19	46
21	0.0	0.0	0.0	15	5.6	7.7	60	12	25	14	12	101
22	0.0	0.0	0.0	13	14	40	76	7.6	7.1	34	7.5	95
23	0.0	0.0	0.0	11	4.3	36	37	7.1	9.3	15	10	85
24	0.0	0.0	0.0	8.7	4.0	21	50	16	10	15	8.8	24
25	0.0	0.1	0.0	6.9	3.9	36	25	14	15	12	11	10
26	0.0	0.0	0.0	5.5	4.1	18	14	22	44	13	21	12
27	0.0	0.1	0.0	4.1	4.4	57	15	22	12	16	21	24
28	0.0	0.1	60	3.1	4.7	122	17	17	14	16	10	29
29	0.0	0.1	19	2.1		141	19	83	13	16	12	18
30	0.0	0.0	0.9	1.4		33	17	40	14	29	14	28
31	0.0		0.0	0.3 *		8.5		8.5		23	16	
MEAN	8.3	0.0	2.6	27.8	4.5	62.3	43.9	28.7	21.5	21.9	19.3	28.5
MAX.	52	0.3	60	248	14	383	147	101	89	72	46	101
MIN.	0.0	0.0	0.0	0.0	1.3	7.2	4.8	7.1	4.6	9.7	7.5	1.7
AC. FT.	510	1	158	1709	250	3829	2612	1764	1281	1348	1189	1698

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE 22.6

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
667	6.07	3	1145

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
0.0	0.84	10	0015

TOTAL
ACRE FEET 16350

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 22 42	121 03 30	SE26 6S 8E				1959 to date					

Station located 1.0 mile south of intersection of Crows Landing Road and Highway 33 and is 400 feet east of highway. During the summer months the flows are irrigation drainage. Records are available for a station located 0.6 mile upstream operated by USBR 1948 to 1959. Also, records are available for a station located 4.5 miles downstream operated by the Department of Water Resources 1957 to 1972. Maximum discharge of record on 2-1-63 estimated as 2,650 cfs at gage height 12.08 by extending the rating curve above 1,654 cfs.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	920	868	1250	2960	3140	1000 *	1710	1700	1200	793	692	911	1
2	927	838	1250	2740	3140	1030	1820	1640 *	1260	773 *	694	895	2
3	946 *	811	1260	2690 *	3050	1230	1960	1560	1310	729	658	917	3
4	923	787	1270 *	2620	2960 *	1340	2390	1540	1300	737	665	876	4
5	898	768	1290	2480	2760	1590	3230 *	1540	1250	734	667 *	849 *	5
6	876	750	1270	2480	2410	2310	3610	1520	1190 *	733	657	880	6
7	962	742	1240	2620	2050	2980	3530	1530	1220	735	662	853	7
8	1190	756	1200	2980	1900	3040	3120	1500	1260	806	650	828	8
9	1250	867	1170	3440	1770	2690	2630	1450	1580	876	677	836	9
10	1370	966	1150	3690	1630	2670	2320	1370	2370	909	686	849	10
11	1390	1000	1120	3760	1480	2480	2210	1350	2770	889	701	872	11
12	1330	1010	1100	3630	1400	2280	2030	1390	2490	934	703	864	12
13	1220	1020 *	1020	3320	1430	2150	1950	1400	1780	1000	675	807	13
14	1160	1020	961	3050	1440	1920	1800	1350	1550	1010	701	801	14
15	1120	1000	993	2870	1380 *	1570	1640	1350	1620	951	703	813	15
16	1050	980	1090	2740 *	1350	1410	1450	1280	2010	884	715	837	16
17	966	995	1090	2660	1340	1340	1370 *	1210 *	1940	816	711	853	17
18	920	1020	1070	2610	1260	1310 *	1330	1160	1620	752	745	888	18
19	926	1160	1070	2530	1220	1270	1320	1250	1530	728	792	913	19
20	983	1370	1060	2600	1170	1230	1260	1330	1380	703	804	924	20
21	997	1770	1050	2930	1170	1190	1280	1290	1190	711	762	914	21
22	1010	1880	1070	3160	1130	1190	1310	1330	1060	735	769	920	22
23	1020	1680	1150	3310	1070	1190	1280	1300	1010	705	778	981	23
24	1020	1470	1260	3420	1040	1180	1280	1260	1000	665	783	940	24
25	1020	1380	1270	3490	1040	1170	1280	1170	923	676	809	896	25
26	1030	1370	1220	3620	1020	1170	1240	1160	914	664	845	904	26
27	988	1390	1250	3440	1020	1190	1260	1130	883	641	804	915	27
28	970	1390	1490	3300	1000	1340	1420	1100	823	649	822	890	28
29	995	1350	2210	3250		1460	1630	1080	805	704	829	891	29
30	989	1260	2860	3190		1590	1690	1060	813	674	825	963	30
31	914		3070	3140		1590		1100		666	861		31
MEAN	1041	1122	1317	3055	1670	1648	1878	1335	1402	774	737	883	MEAN
MAX.	1390	1880	3070	3760	3140	3040	3610	1700	2770	1010	861	981	MAX.
MIN.	876	742	961	2480	1000	1000	1240	1060	805	641	650	801	MIN.
AC. FT.	64030	66780	80970	187900	92770	101400	111800	82120	83410	47570	45310	52520	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE MT.	MO.	DAY	TIME	DISCHARGE	GAGE MT.	MO.	DAY	TIME	ACRE FEET
1404	3770	39.64	1	11	0945	625	32.78	7	27	1615	1016000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE MT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38	OCT 69-DATE		1959		0.00	USCGS
			9,600b	46.12	2-16-73			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.  
b Maximum discharge since station was rated in October 1969.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
1	216	2070	498	504	2200	749	405	171	113	80 *	121
2	768	1520	440	854	1580	906	354 *	112	111	130	244 *
3	1510 *	1360	429	2470	901	607	228	99 *	101	80	395
4	3840	1110	470 *	3090	910 *	589	184	99	260	151	133
5	795	1020	464	2750	1970	858	181	100	312	81	112
6	665	944	464	1970	2050	1260	179	99	257	82	234
7	789	546	514	1730	1880	1550 *	176	96	287 *	78	387
8	366	501 *	481	2950	1720	1740	173	217	116	73	263
9	372	487	428	2740	1350	1100	178	248	102	154	127
10	626	487	425	2790	846	614	176	119	97	112	110
11	624	459	473	2520 *	789	659	174	106	318	78	101
12	619	468	631	1790	1690	886	175	103	207	76	98
13	612	513	619	858	1880	878	173	103	149	76	95
14	618	486	512	949	1860	901	171	98	100	78	604
15	415	481	472	2030	1740	613	171	94	86	80	721
16	1310	483	384	2020	1290	595	172	92	84	76	737
17	2250	492	315	2000	789	532	171	95	85	79	718
18	2300	466	365	1850	364	461	192	97	81	84	706
19	2140	457	365	1480	468	545	190	100	80	221	561
20	1560	485	442	828	629	524	163	100	78	340	539 *
21	921	483	803	1010	748 *	385	166	95	74	148	608
22	348	479	729	2120	844	374	167	96	78	105	656
23	610	438	430	2050	650	375	166	96	78	310	708
24	1680 *	481	338	2130	492	372	168	151	72	398	728
25	1850	443	356	2120	429	443	170	120	64	491	639
26	2310	444	364	1720	685	488	168	112	67	529	669
27	1930	474	886	986	611	461	169	105	65	255	709
28	1300	482	858	1100	573	534	171	102	63	126	644
29	1190	473	516	2210		381	169	98	184	109	621
30	2370	471	385	2220		381	171	97	202	101	619
31	2360		370	2320		379		94		118	605
MEAN	1267	650	491	1876	1141	681	189	113	132	158	458
MAX.	3840	2070	886	3090	2200	1740	405	248	318	529	737
MIN.	216	438	315	504	364	372	163	92	63	73	95
AC. FT.	77880	38680	30200	115400	63350	41890	11250	6970	7876	9717	28190

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# - E AND \*

MEAN	MAXIMUM					MINIMUM				
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME
697	4670	74.37	1	4	0330	59	69.56	6	28	2200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 35 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge. Drainage area is 1,655 square miles.

## BLE B-3 (Cont.)

## MEAN DISCHARGE

CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B04130	DRY CREEK NEAR MODESTO

NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
16	19	139	29	33	101 *	70	93	73	74 *	65	1
14 *	22	383	28	573	901	72	91	80	78	68	2
13	22	168	25	962	719	82	93	81 *	70	86	3
13	24	104	24	1030 *	213	92	93	81	89	79	4
75 *	14	87	23 *	374	134	82	85 *	79	86	68	5
71	17	131	22	157	101	98	76	74	78	101 *	6
87	16	126	21	118	88	90 *	76	72	69	165	7
286	14	125	21	141	77	75	74	73	72	168	8
226	14	122	20	464	69	79	84	94	72	163	9
99	12	122	20	174	78	85	77	148	59	167	10
56	12	123	18	122	65	81	73	131	60	195	11
39	12	144	17	100	66	82	81	113	57	207	12
32	13	151	16	86	60	94	86	116	63	196	12
29	13	149	17	77 *	52	90	84	108	73	226	14
28	15	149	17	72	51	87	80	117	83	219	15
28	24	149	17	66	49 *	84	77	114	78	214	16
24	20	149	18	63	58	93	76	100	64	204	17
23	17	165	19	61	57	75	82	88	73	212	18
24	15	165	20 *	58	70	81	93	86	70	209	19
23	14	158	18	55	69	102	104	85	72	191	20
21	12	139	17	52	54	110 *	94	72	62	204	21
19	11	54	19	49	52	91	103	73	62	200	22
19	10	161	25	47	60	89	105	81	68	187	23
19	9.5	114	37	45	82	88	96	76	69	158	24
24	9.1	62	43	46	94	83	83	80	75	131	25
26	10	45	42	56	92	83	88	84	80	95	26
22	11	279	41	50	84	85	77	81	73	102	27
20	7.9	1850 *	35 *	64	80	82	74	73	72	96	28
22	6.3	992	36	67	78	105	87	77	77	97	29
19	15	298	32	84	74	95	73	80	68	98	30
18		210	31	84		86		79	64		31
53.2	13.3	210	137	23.9	175	128	86.8	85.0	89.3	152	MEAN
286	24	1850	742	43	1030	901	110	105	148	89	MAX.
18	6.3	19	31	16	33	49	70	73	72	57	MIN.
3273	793	12920	8438	1327	10770	7593	5338	5073	5492	4383	9066 AC. FT.

ESTIMATED  
NO RECORD  
DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
AND \*

MEAN DISCHARGE
103

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
2070	79.72	12	28	1730

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
6.3	67.61	11	29	0230

TOTAL ACRE FEET
74460

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
7 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	303	1890	700 E	813	1870 *	746	903 *	363	277	407	272 *	800
2	339	1680	650 E	922	1760	946	1090	358 *	308	315 *	270	787
3	564	1420	640 E	1340	1390	1840	1870	328	328	308	344	797
4	968	1280	660 #	2300 *	939	1810	977	323	328	292	447	835
5	1710 *	1140	702	2630	1040	1530	725	323	421	358	368	907
6	1040	1100	763	2380	1560	1490 *	632	328	482 *	334	318	899
7	932	994	780	2000	1590	1570	553	326	456	313	366	991
8	1070	749	807	2290	1500	1760	483	315	473	315	464	1070
9	885	672	783	2430	1420	1900	442	374	366	326	415	1010
10	756	640	746	2240	1190	1450	432	413	339	453	310	983
11	794	617	746	2260	849	1130	414	336	347	427	313	1180
12	719	605	790	2140	922	1190	415	310	491	344	303	1290
13	739	592 *	910	1680	1380	1280	427	321	450 *	331	263	1210
14	729	600 E	914	1090	1500	1300	421	305	401	318	265	1170
15	722	590 E	839	1280	1520	1200 *	394	285	366	315	530	1080
16	617	610 E	804	1840	1470	994	397	270	347	313	729	1030
17	1070	620 E	739 *	1900	1200	936	407 *	255 *	315	295	766	1120
18	1590	600 E	699	1900	874	853	418	255	290	280	790	1750
19	1700	600 E	729	1900	640	769	433	270	315	263	811	2180
20	1640	620 E	732	1620	672 *	797	456	303	323	336	725	2340
21	1330	620 E	825	1120	769	756	418	308	334	435	685	2370
22	954	620 E	1050	1390	864	679	399	292	315	342	759	2320
23	636	600 E	932	1960	885	646	396	246	323	285	790	2100
24	735	630 E	842	1950	797	653	427	270	328	410	811	1940
25	1310	620 E	709	1950	682	646	447	297	292	473	846	1770
26	1530	620 E	679	1970	636	715	413	323	290	564	780	1770
27	1800	640 E	821	1620	773	735	413	321	300	564	790	1850
28	1590	640 E	1870	1080	769	842	415	308	287	438	839	1890
29	1240	650 E	2600	1270		921	407	321	272	366	825	2000
30	1280	650 E	1300	1790		853	379	323	358	326	814	1970
31	1830		901	1860		871		282		282	800	
MEAN	1068	797 E	892	1771	1124	1091	547	311	351	359	574	1447
MAX.	1830	1890	2600	2630	1870	1900	1870	413	491	564	846	2370
MIN.	303	590 E	640 E	813	636	646	379	246	272	263	263	787
AC. FT.	65700	47420 E	54870	108900	62400	67060	32530	19140	20870	22070	35320	861

E — ESTIMATED

NR — NO RECORD

\* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW

# — E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE F
861	2690	30.16	1	8	2200	239	23.12	5	23	2100	6224

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	RI DATE	
			CFS	GAGE HT.	DATE			FROM	TO			
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE				1959	0.00	US
				43.15a	12- 9-50					1960	0.00	US
			37900b	42.86	1-27-69					1960	3.50	US

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1480	2590	2060	3980	5200 *	1730	2120 *	1940	1240	1290 *	941 *	1740	1
2	1400	2540	2070	3970	5230	1880	2480	1990	1360	1190	950	1790	2
3	1570	2550	2050	4090 *	4880	2620	3430 *	1880	1630	1140	931	1760	3
4	1780 *	2180	2030 *	4950	4350	3130	3440	1830	1610	1100	1030	1750	4
5	2440	2050	2050	5350	4000	3090	3440	1830	1620	1170	1040	1740	5
6	2200	1990	2090	5300	4290	3360 *	3860	1860	1600 *	1130	973	1740 *	6
7	1980	1960	2070	5160	4010	4230	4100	1890	1630	1110	973	1790	7
8	2290	1790 *	2080	5350	3610	4790	3850	1800 *	1720	1210	1070	1880	8
9	2300	1740	2050	6380	3370	4810	3440	1890	1870	1300	1100	1880	9
10	2200	1820	1990	6520	3080	4700	3110	1830	2300	1500	1060	1820	10
11	2280	1860	1950	6600	2660	3930	2780	1650	2780	1510	1090	1970	11
12	2240	1850	1960	6540	2320	3630	2520	1700	2930	1420	1120	2100	12
13	2190	1840	1980	5870 E	2780	3600	2350	1850	2670 *	1420	1060	2040	13
14	2120	1860	1960	4970 E	2950	3360	2320	1760	2240	1450	1040	2000	14
15	2080	1840	1900	5730 E	2970	3080 *	2080	1660	2100	1370	1180	1970	15
16	1940	1810	2030	6710 E	2880	2590	1790	1690	2320	1230	1360 *	1980	16
17	2000	1810	2120	7300 E	2710	2350	1610	1610 *	2610	1170	1440	2020	17
18	2290	1830	2100	7050 E	2370	2200	1640 *	1430	2250	1080	1510	2330	18
19	2420	1840	2100	5730 E	1990	1990	1720	1540	2080	1010	1560	2680	19
20	2470	1940	2100	4530	1880 *	1860	1810	1700	1940	1020	1530	2870	20
21	2420	2160	2110	4340	1950	1780	1860	1780	1930	1120	1490	2940	21
22	2170	2360	2770	4360 *	1940	1650	1700	1660	1640	1100	1470	2970	22
23	1960	2340	2300	5080	1950	1620	1780	1560	1500	978	1530	2960	23
24	1900	2170	2300	5300	1860	1560	1790	1580	1480	941	1550	2870	24
25	2230	2060	2240	5370	1750	1590	1860	1530	1400	1020	1630	2960	25
26	2400	2050	2190	5620	1600	1570	1770	1550	1290	1070	1650	3030	26
27	2570	2070	2260	5510	1750	1470	1720	1530	1320	1120	1630	3010	27
28	2550	2110	2810 *	4520	1800	1670	1730	1440	1300	1040	1610	3020	28
29	2320	2130	4240	4540		1990	1950	1290	1220	1030	1660	3010	29
30	2210	2070	4160	5150		1980	2000	1250	1270	992	1640	3100	30
31	2550		3980	5280		2090		1140		936	1680		31
MEAN	2160	2040	2330	5390	2930	2640	2400	1670	1830	1170	1310	2320	MEAN
MAX.	2570	2590	4240	7300	5230	4810	4100	1990	2930	1510	1680	3100	MAX.
MIN.	1400	1740	1900	3970	1600	1470	1610	1140	1220	936	931	1740	MIN.
AC. FT.	132800	121400	143000	331500	162900	162400	142900	102400	108800	71740	80330	138300	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2350	7300	21.29E	1	17	Daily	899	14.19	8	3	0200	1698000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87 38.31 <sup>a</sup>	2-28-69 1-27-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959 1959	1959	0.00 0.00 3.41	USED USCGS USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

<sup>a</sup> This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	30	127	1060	2070	2710 *	1400	4500	2650	4160	41	43	38
2	30	125	1000	1990	2430	2050	4970 *	2450	4120	40	39 *	41
2	30	123	995	1970	2450	1740	4210	2460 *	3670	42 *	38	39
4	29	125	1000	1970	2190	1520	4230	2430	3300	43	38	38
5	32 *	127	999 *	1980	1820	1390	4270	2420	3380 *	44	42	35
6	41	134	1000	2260	1820	1240	4140	1550	3300	49	52	35 *
7	48	139	981	2080	1820	1230	3850	2320	3470	53	55	37
8	162	125	954	2010 *	1820	1400	3550	2710	3920	57	55	36
9	39	122	949	1980	1830	1330	3560	3660	3840	82	42	38
10	26	119	952	1960	1840	1320	3560	4330	2280	94	36	35
11	31	119	972	1970	1850	1310	3780	3670	1080	79	35	36
12	20	125 *	968	2010	1860	1300	4150	3260	968	57	36	36
13	18	147	988	1990	1860	1300	4180	3470	1380	52	33	38
14	19	189	1280	1940	1860	1290 *	4200	4290	844	50	32	37
15	21	210	1950	1910	1630	1330	4020	4310	1680	50	31	35
16	22 *	205	1930	1860	1310	1400	3640 *	4210	2170	52	33	38
17	24	206	1930 *	2780	1310	1400	3540	4110	1880	50	35	46
18	346	217	1930	4680	1310	1570	3340	3710	1540	53	36	49
19	408	199	1930	4610	1320	1880	3870	3100	599	58	37	41
20	351	180	1930	4240	1400	1890	2580	2350	382	50	34	38
21	363	77	1960	4230	1590 *	1890	2530	1180 *	385	45	34	40
22	291	168	2040	3940	1600	1890	1930	481	389	42	32	46
22	48	196	1950	3970 *	1600	1880	795	314	413	44	32	41
24	22	598	1940	4810	1600	1800	675	252	597	43	33	38
25	17	677	1940	4780	1590	2380	695	68	724	44	33	36
26	16	774	1950	4810	1520	3870	937	44	332	48	33	34
27	15	997	2460	4720	1400	3610	1990	464	138	45	35	35
28	14	995	2350 *	4740	1390 *	3380	2000	2540	62	47	40	41
29	14	994	2060	4230		3450	1990	3500	48	45	39	39
30	35	987	2010	3060		3920	2250	4440	45	48	36	38
31	142		1980	2870		4060		4170		44	38	
MEAN	87.2	318	1559	3046	1740	1981	3131	2610	1703	51.3	37.7	38.5
MAX.	408	997	2460	4810	2710	4060	4970	4440	4160	94	55	49
MIN.	14	77	949	1860	1310	1230	675	44	45	40	31	34
AC. FT.	5363	18900	95880	187300	96650	121800	186300	160500	101300	3156	2315	2289

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1356	5620	11.58	4	1	2400	13	1.23	10	28	0930	981800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REI DAT
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39				117.21	USCG
						APR 40-DATE					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	318	188	883	1890	2890	1490	4040	2340	4040	443 *	329 *	340	1
2	312	214	956	1940	2720	1560	4280 *	2700	4120	395	309	391	2
3	331	218	955	1890	2450	2040	4920 *	2590	4080	378	309	404	3
4	339	219	950	1890	2400	1890 *	4870	2620	3900	377	339	327	4
5	354 *	220	956 *	1900	2210 *	1690	4710	2620	3500	412	335	380	5
6	359	225	925	1930	1910	1630	4640	2650	3510 *	437	326	402	6
7	376	222	924	2160	1850	1520	4540	2120	3470	433	271	351	7
8	457	216	913	2090 *	1830	1500	4320	2400 *	3520	420	256	373	8
9	414	212 *	896	1990	1820	1590	4100	2740	3770	432	261	421	9
10	370	212	892	1920	1820	1640	4030	3450	3820	513	302	475	10
11	317	208	900	1890	1820	1690	3890	3950	2850	575	341	449	11
12	285	207	917	1900	1820	1640	3950	3830	1740	479	307	416	12
13	274	213	923	1950	1830	1570	4150	3520	1510	464	263	415	13
14	256	224	937	1900	1830	1570 *	4200	3560	1710	433	290	389	14
15	246	244	1070	1850	1820	1500	4140	4000	1420	465	276	408	15
16	225	258	1520	1820	1670	1540	3990	4250	1930	397	273	395	16
17	204	268	1650	1790	1440	1580	3780	4260	2220	401	284	402 *	17
18	191	275	1700	2270	1400	1600	3580 *	4240	2140	391	283	400	18
19	212	277	1720	3560	1390 *	1660	3480	4050	1810	359	296 *	441	19
20	326	275	1730	4000	1380	1860	3580	3640	1150	375	282	489	20
21	346	273	1750	3920	1430	1860	3070	2950	885	383	289	438	21
22	352	251	1790	3840	1560	1890	2800	1940	815	395	268	390	22
23	357	229	1850	3760	1610	1870	2290	1290	829	363	231	430	23
24	288	252	1790	3610	1660	1830	1600	1100	827	325	268	410	24
25	231	363	1760	4080	1670	1790	1430	1010	902	310	297	388	25
26	204	514	1770	4270	1650	2110	1400	882	1020	271	295	433	26
27	190	594	1870	4360	1610	3190	1620	827	776	288	234	447	27
28	180	753	2420 *	4350	1510	3470	2260	1080	632	311	235	512	28
29	175	816	2410	4360		3480	2300	2360	521	312	279	577	29
30	169	845	2050	4210		3460	2180	3100	456	310	304	583	30
31	166		1930	3320		3780		3900		308	325		31
MEAN	285	316	1410	2794	1821	1984	3471	2773	2129	392	289	423	MEAN
MAX.	457	845	2420	4360	2890	3780	4920	4260	4120	575	341	583	MAX.
MIN.	166	188	883	1790	1380	1490	1400	827	456	271	231	327	MIN.
AC. FT.	17500	18810	86690	171800	101200	122000	206600	170500	126700	24110	17770	25140	AC. FT.

- ESTIMATED  
- NO RECORD  
- DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
- E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1504	5020	42.41	4	3	1645	163	26.99	10	30	1015	1089000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5a	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS
Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.											
a Water bypasses station by overflowing flood plain on right bank and discharge is not computed.											
Overflowing occurs at approximately 45 feet gage height.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	1760	2960	2900	5830	8600	3420	6470	4210	4920	1840	1300	2170
2	1660	2910	2930	5760	8360	3460	6880	3910	5130	1700	1300	2300
3	1800	2580	2960	5770	7880	4510	7820	3890	5370	1600	1260	2260
4	2060	2400	2960	6360	7320	5070	8100	3970	5340	1570	1340	2220
5	2910	2240	2960	6800	6750	4900	7960	4080	5100	1630	1380 *	2220
6	2900	2110	2990	6890	6670	4920	8350	4180	4930	1620	1310	2210
7	2450	2060	2990	6940	6350	5520	8530	3950	4930	1600	1260	2220
8	2900	1810 *	3000	7070 *	5910	6020	8300	3620 *	4910	1700	1340	2360
9	3000	1700	2990	7830	5550	6240	7600	4080	5230	1760 *	1370	2400
10	2820	1770	2910 *	8110	5380	6190	7120	4510	5670	2040	1380	2280 *
11	2830	1860	2870	8200	4930	5800	6650 *	4960	5730	2160	1370	2390
12	2770	1870	2860	8290	4490 *	5490	6400	5170	4880	2070	1430	2560
13	2650	1870	2910	7980	4670	5360	6380	5070	3970	2000	1320	2500
14	2520	1890	2920	7180	4970	5180	6430	4900	3750	2070	1290	2450
15	2430	1910	2860	6450	5070	4860	6250	5040	3310	1970	1380	2420
16	2230 *	1920	3200	6740	4950	4380	5880	5390	3840	1740	1590	2400
17	2190	1930	3460	6770	4530	4200	5530	5440	4400	1610	1700	2420
18	2520	1960	3460	6840	4140	4090	5300	5350	4370 *	1520	1820	2680
19	2740	1980	3500	7710	3670	3990	5290	5240	3890	1410	1880	3150
20	2900	2110	3520	8290	3500	4060	5290	5080	3360	1400	1840	3500
21	2950	2390	3550	8180	3540	4000	5110	4620	2800	1520	1810	3630
22	2620	2710	3780	8050	3670	3900	4580	3760	2500	1550	1740	3620
23	2340	2770	3910	8820	3760	3850	4230	3020	2360	1410	1810	3650
24	2180	2590	3910	8990	3730	3780	3570	2700	2400	1340	1820	3480
25	2450	2440	3840	9380	3650	3850	3340	2560	2330	1400	1970	3520
26	2700	2500	3770	9650	3500	3920	3180	2460	2350	1430	2050	3630
27	2910	2610	3870	9700	3550	4870	3100	2390	2220	1470	2000	3640
28	2950	2780	4730	9330	3530	5490	3650	2260	2070	1440	1910	3670
29	2610	2900	6420	8830	5940	5940	4040	3120	1900	1430	1990	3660
30	2370	2900	6320	9340	5910	5910	4170	3830	1840	1410	2020	3760
31	2820		5930	9140	6160	6160		4540		1320	2080	
MEAN	2546	2281	3586	7781	5094	4817	5850	4106	3860	1636	1615	2846
MAX.	3000	2960	6420	9700	8600	6240	8530	5440	5730	2160	2080	3760
MIN.	1660	1700	2860	5760	3500	3420	3100	2260	1840	1320	1260	2170
AC. FT.	156600	135700	220500	478500	282900	296200	348100	252500	229700	100600	99290	169300

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3826	9810	19.16	1	27	0700	1260		8	3		2770000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCG
						MAY 29-DATE		1959		0.00	USCG

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B71408	MUSICK CREEK #2 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		.045 E	1.96	.392	.665	12.0 *	17.2 E	2.00	.882	.374	.139	.081	1
2		.045 *	.796	.392	.665	10.4	7.97 E	2.00	.882	.347	.120	.081	2
3		.045	.574	.347	.619	3.64	4.73 E	2.00	.796	.347	.120	.030	3
4		.061	.528	.483	.619	2.85	4.73 E	1.85	.710	.301	.139	.028	4
5		.081	.483	.392	.619	2.56	4.51 E	1.85	.796	.301	.100	.025	5
6		.100	.438	.619	.574 *	2.71	4.29 E	1.71	.796	.236	.120 *	.036	6
7		.120 *	.438 *	.528	.574	2.28 E	3.86 E	1.57	.796	.236	.120	.061	7
8		.120	.347	.392	.574	1.48 E	3.64 E	1.40	.710	.236 *	.120	.061	8
9		.139	.301	.392	.574	1.23 E	3.42 E	1.40	.665	.256	.120	.013	9
10		.236	.236	.438	.574	1.23 E	2.99 E	1.31 *	.710	.301	.120	.040	10
11		.438	.256	.438	.619	1.48 E	2.99 E	1.23	.710 *	.301	.120	.045	11
12		2.98	.256	.528	.665	2.42 E	2.99 E	1.23	.710	.301	.120	.020 *	12
13		.483	.483	.619	.665	2.28 E	2.85	1.14	.665	.236	.120	.015	13
14		.574 *	.438	.619	.619	2.71 E	2.85	1.14	.665	.236	.081	.045	14
15		.438	.347	.796	.619	3.21 E	2.71	1.05	.619	.236	.081	.045	15
16		.483	.301	1.40	.665	3.64 E	2.56	.968	.619	.217	.100	.045	16
17		3.59	.256	2.85	.665	3.64 E	2.56	.968	.619	.217	.081	.030	17
18		3.97	.236	2.85	.665	4.08 E	2.56	1.05	.619	.217	.100	.015	18
19		.796	.236	1.48	.710	4.08 E	2.42	1.14	.665	.198 *	.081	.026	19
20		.528	.236	3.21	.710	4.08 E	2.42	1.14	.665	.198	.081	.039	20
21		.483	.236	2.14	.710	3.64 E	2.28	1.05	.574	.198	.081	.081	21
22		.392	.347	1.48 *	.710	3.21 E	2.14 *	.968 *	.574	.198	.081	.100	22
23		.347	.301	1.23	.710	3.21 E	2.14	.882	.574	.178	.061	.040	23
24		.347	.301	1.05	.710	3.21 E	2.56	.968	.528	.178	.081	.035	24
25		.256	.256	.968	.796	2.99 E	2.42	.882	.483	.178	.081	.036	25
26		.256 *	.301	.968	.882	3.42 E	2.42	.796	.438	.178	.081	.061	26
27		.236	1.57 *	.796	.968	8.28 E	2.42	.796	.438	.178	.061	.100	27
28		.256	1.23	.796	1.05	9.14 #	2.28	.796	.392	.158	.045	.120	28
29		.256	.796	.665		5.47 E	2.28	.796	.392	.139	.045	.100	29
30		.256	.574	.665		10.0 E	2.14	.796	.392	.139	.061	.081	30
31			.483	.619		4.94 E		.796		.139	.081		31
MEAN		.612	.501	.985	.686	4.18 E	3.58 E	1.22	.636	.230	.095	.051	MEAN
MAX.		3.97	1.96	3.21	1.05	12.0	17.2 E	2.0	.882	.347	.139	.120	MAX.
MIN.		.045	.236	.347	.574	1.23 E	2.14	.796	.392	.139	.045	.013	MIN.
AC.FT.		36.4	30.8	60.6	38.1	257 E	213 E	74.7	37.9	14.1	5.8	3.0	AC.FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN
DISCHARGE
1.168

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
31.1	1.95	3	1	2230
32.0 E		4	1	

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
771.4

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 5 12	119 20 35	SW3 10 24				11-2-73		1973		Assumed

Station located 4.0 miles south of Shaver Lake on Highway 168 and 1.5 miles west on private road. Station operated under contract. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.3 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B71406	MUSICK CREEK #1 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		.327 E	5.39	2.20	2.20	28.6 **	29.7	7.30	2.20	.635	.173	.062	1
2		.327 *	2.00	2.00	2.00	28.2	23.5	6.52	2.00	.635	.173	.062	2
3		.327	1.58	1.58	1.80	12.5	16.0	6.52	2.00	.583	.173	.062	3
4		.327	1.35	1.69	1.80	10.1	14.1	6.32	1.80	.583	.224	.047	4
5		.276	1.24	1.58	1.69	9.42	13.0	6.13	1.80	.583	.224	.047	5
6		.378	1.13	3.19	1.58 *	9.20	12.5	6.13	1.80	.635	.173 *	.031	6
7		.327 *	1.13 *	1.58	1.58	7.88	12.5	5.58	1.69	.635	.173	.031	7
8		.276	1.13	2.00	1.47	7.49	11.8	5.23	1.58	.686 *	.157	.031	8
9		.276	1.02	2.00	1.47	7.10	12.0	5.06	1.47	.686	.141	.031	9
10		.481	.909	1.69	1.47	7.10	10.8	4.88 *	1.35	.909	.157	.031	10
11		.909	.909	1.47	1.47	7.69	10.6	4.61	1.35 *	.797	.157	.031	11
12		7.78	1.02	1.80	1.47	9.20	10.6	4.33	1.13	.686	.141	.040 *	12
13		1.35	1.47	2.00	1.47	8.98	10.6	4.33	1.13	.583	.141	.047	13
14		1.47 *	1.69	1.80	1.47	9.64	10.1	3.78	1.13	.583	.141	.047	14
15		.909	1.24	2.40	1.47	10.3	9.86	3.78	1.13	.583	.141	.031	15
16		.909	1.13	4.06	1.47	11.0	9.20	3.78	1.13	.532	.141	.031	16
17		10.0	1.13	7.30	1.47	11.0	8.98	4.06	1.24	.583	.141	.015	17
18		9.06	1.13	7.10	1.58	11.5	8.54	4.33	1.24	.583	.126	.015	18
19		2.59	1.02	6.91	1.58	11.5	7.88	4.33	1.24	.532 *	.141	.015	19
20		2.00	.909	7.10	1.58	11.5	7.30	4.06	1.24	.481	.126	.015	20
21		1.69	1.24	5.76	1.69	11.0	7.10	3.78	1.13	.481	.126	.013	21
22		1.47	1.47	4.33 *	1.69	10.6	6.91 *	3.39 *	1.13	.430	.110	.013	22
23		1.24	1.35	4.33	1.58	10.6	7.10	3.39	1.02	.430	.078	.012	23
24		1.13	1.35	3.58	1.58	10.6	8.32	3.19	.909	.378	.078	.012	24
25		1.02	1.35	3.39	1.58	10.3	7.49	2.90	.797	.327	.078	.012	25
26		1.02 *	1.47	3.19	1.69	11.0	7.69	2.79	.909	.276	.062	.013	26
27		.909	6.71 *	2.40	1.69	16.9	8.10	2.59	.797	.276	.062	.013	27
28		.909	5.06	2.40	1.69	19.3 *	8.10	2.59	.686	.276	.062	.015	28
29		.909	3.39	2.40		15.5	7.88	2.59	.635	.276	.062	.013	29
30		.909	2.79	2.40		19.3	7.88	2.59	.635	.276	.062	.013	30
31			2.40	2.20		14.9		2.40		.276	.078		31
MEAN		1.71	1.84	3.16	1.62	12.3	10.9	4.30	1.28	0.523	0.130	0.028	MEAN
MAX.		10.0	6.71	7.30	2.20	28.6	29.7	7.3	2.20	.909	.224	0.062	MAX
MIN.		0.276	0.909	1.47	1.47	7.10	6.91	2.4	.64	.276	.062	0.012	MIN.
AC. FT.		102	113	194	89.8	754	647	264	76.0	32.2	8.0	1.7	AC. FT.

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.44	56.4	2.25	3	1	2330	0.010	0.30	9	25		2281.7
		2.24	4	1	2145						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 5 34	119 19 55	SW2 10 24				11-2-73			1973		Assumed

Station located 4.0 miles south of Shaver Lake on Highway 168 and 2.5 miles west on private road. Station operated under contract with Fresno County. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.9 square miles.

TABLE B-3 (Cont.)  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.		STATION NAME									
1974		C01120		SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2									
JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	DAY
1	0.0	24	50	0.0	105	66	44	21	0.0	1	1	1	1
2	0.0	0.0	37	13	99	73	21	21	14	2	2	2	2
3	0.0	0.0	31	20	96	74	39	15	20	3	3	3	3
4	18	0.0	31	20	43	68	35	6	21	4	4	4	4
5	35	0.0	26	20	21	63	22	6	20	5	5	5	5
6	35	0.0	18	20	21	63	37	6	0.0	6	6	6	6
7	34	0.0	26	20	26	68	47	6	0.0	7	7	7	7
8	0.0	0.0	31	7	37	86	50	16	0.0	8	8	8	8
9	20	0.0	31	0.0	41	88	50	63	0.0	9	9	9	9
10	35	0.0	35	0.0	61	84	43	99	0.0	10	10	10	10
11	35	0.0	18	0.0	22	102	29	99	17	11	11	11	11
12	18	0.0	0.0	39	0.0	122	31	90	26	12	12	12	12
13	0.0	0.0	0.0	59	0.0	128	31	50	25	13	13	13	13
14	0.0	0.0	0.0	59	0.0	134	31	35	26	14	14	14	14
15	0.0	0.0	0.0	57	0.0	134	31	33	25	15	15	15	15
16	0.0	0.0	0.0	56	0.0	134	31	37	26	16	16	16	16
17	0.0	0.0	0.0	61	0.0	140	21	47	25	17	17	17	17
18	8	17	0.0	45	0.0	86	0.0	43	26	18	18	18	18
19	15	26	0.0	37	0.0	52	0.0	49	25	19	19	19	19
20	15	24	0.0	37	13	37	0.0	63	26	20	20	20	20
21	15	2	7	28	19	28	0.0	47	25	21	21	21	21
22	16	0.0	20	37	19	22	0.0	28	26	22	22	22	22
23	16	15	20	61	19	22	0.0	17	25	23	23	23	23
24	16	15	20	75	31	21	0.0	0.0	26	24	24	24	24
25	15	38	7	86	37	21	0.0	0.0	25	25	25	25	25
26	15	52	0.0	56	37	21	0.0	0.0	26	26	26	26	26
27	15	52	0.0	1	42	31	13	16	15	27	27	27	27
28	14	52	10	0.0	43	37	21	21	0.0	28	28	28	28
29	18	5	34	29	52	20	21	21	0.0	29	29	29	29
30	22	0.0	81	40	61	21	14	14	0.0	30	30	30	30
31	26	0.0	0.0	68	61	21	0.0	0.0	0.0	31	31	31	31
MEAN	15	11	14	34	31	71	22	31	16	MEAN	MEAN	MEAN	MEAN
MAX.	35	52	50	86	105	140	50	99	26	MAX.	MAX.	MAX.	MAX.
MIN.	0	0	0	0	0	21	0	0	0	MIN.	MIN.	MIN.	MIN.
C. FT.	904	629	839	2041	1922	4201	1367	1922	972	C. FT.	C. FT.	C. FT.	C. FT.

- ESTIMATED  
 - NO RECORD  
 - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 - E AND W

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
20.4		146		6	17	2200	0		10	1		14797	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO		
36 10	119 50	NW20 20S 20E	4102a		6-12-69	1937-DATE						

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

a Maximum discharge since 1950.

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C02602	CROSS CREEK BELOW LAKE LAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

? - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					
Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	10			0	5	16	20	18	19	14	6	1
2	5	7			0	6	16	18	18	19	14	6	2
3	7	7			0	5	16	16	18	19	14	6	2
4	7	5			12	6	19	16	17	19	14	6	4
5	7	5			15	5	19	14	18	19	14	6	5
6	7	5			15	5	19	14	18	19	15	6	6
7	6	5			15	9	19	15	18	19	15	7	7
8	6	0			15	9	16	16	18	19	15	8	8
9	0	0			15	9	16	16	18	19	15	12	9
10	0	0			15	9	16	16	18	19	14	11	10
11	0	0			15	9	16	16	18	19	15	12	11
12	0	0			15	9	16	16	18	19	15	6	12
13	0	0	N	N	15	12	16	16	18	19	15	7	13
14	0	0	O	O	15	13	16	16	19	19	12	7	14
15	0	0			15	10	16	16	19	19	11	7	15
16	0	0	F	F	16	12	16	16	20	18	11	7	16
17	0	0	L	L	15	13	16	16	20	19	11	6	17
18	0	0	O	O	15	13	18	16	20	19	11	6	18
19	0	0	W	W	15	13	18	16	20	20	11	6	19
20	6	0			4	13	16	16	19	20	10	6	20
21	6	0			0	12	16	16	19	20	9	4	21
22	6	0			0	13	16	16	19	20	10	0	22
23	6	0			0	16	18	18	20	20	1	0	23
24	6	0			0	16	18	20	20	20	0	4	24
25	6	0			0	16	17	17	20	20	0	0	25
26	6	0			4	16	17	17	18	20	0	4	26
27	5	0			5	16	17	17	18	20	10	4	27
28	5	0			5	16	19	17	18	20	10	4	28
29	8	0				16	19	17	18	15	8	3	29
30	9	0				16	20	17	17.5	15	8	3	30
31	10					16		17		14.5	8		31
MEAN	4.0	1.5			9.1	11.4	17.1	16.5	18.6	18.9	10.6	5.8	MEAN
MAX.	10	10			16	16	20	20	20	20	15	12	MAX.
MIN.	0	0			0	5	16	14	17	14.5	0	0	MIN.
AC. FT.	246	87			508	702	1018	1012	1106	1161	655	345	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9.4	54	1.07	10	2	0800	0					6840

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

**TABLE B-3 (Cont.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0			0	0	80	105	115		0	0	1
2		0			0	0	80	104	115		86	0	2
3		0			0	0	80	104	115		140	0	3
4		0			50	0	79	104	115		140	0	4
5		0			88	0	80	104	115		23.5	0	5
6		0			108	0	80	105	115		0	0	6
7		0			116	0	80	105	115		0	0	7
8		0			115	0	89	115	115		0	0	8
9		0			115	0	90	100	115		0	0	9
10		0			115	0	90	90	115		0	0	10
11		0			115	0	11	90	115		0	0	11
12		0			115	0	0	90	115		0	0	12
13		0			116	0	0	113	115		0	0	13
14	N	0	N	N	85	0	0	115	115	N	0	0	14
15	O	0	O	O	81	74	0	115	115	O	0	0	15
16		0			71	74	0	115	115		0	0	16
17	F	0	F	F	62	115	0	115	115	F	0	0	17
18	L	0	L	L	5	115	69	115	115	L	0	0	18
19	O	0	O	O	0	115	114	114	115	O	0	0	19
20	W	100	W	W	0	104	115	115	115	W	0	0	20
21		100			0	104	115	115	115		0	0	21
22		88			0	104	115	115	115		0	0	22
23		79			0	106	115	115	115		0	0	23
24		79			0	91	115	115	114		0	0	24
25		6			0	91	114	115	19		0	7	25
26		0			0	81	105	115	0		0	0	26
27		0			0	81	105	115	0		0	0	27
28		0			0	80	105	115	0		0	0	28
29		0			0	80	105	115	0		0	0	29
30		0			0	80	105	115	0		0	0	30
31		0			0	80	105	115	0		0	0	31
MEAN		15.1			48.5	50.8	74.5	110	92.6		12.6	0.2	MEAN
MAX.		100			116	115	115	115	115		140	7	MAX.
MIN.		0			0	0	0	90	0		0	0	MIN.
AC. FT.		897			2692	3124	4435	6740	5510		773	14	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
33.4	149	1.81	8	2	1200	0					24185

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	90.0	0.0	262.0	0.0	90.0 b	90.0	128.0	87.0	169.0		1
2		0.0	103.0 *	0.0	271.0	0.0	93.0 b	90.0	123.0	90.0 *	169.0 a		2
3		0.0	100.0	0.0	226.0	0.0	83.0 b*	93.0	119.0	93.0	169.0 a		3
4		0.0	103.0	0.0	123.0 a	0.0	78.0 b	90.0	107.0	93.0	152.0 a		4
5		0.0	103.0	0.0	87.0 b	0.0	80.0 b	90.0	115.0	90.0	148.0 a		5
6		0.0	107.0	0.0	80.0 b	59.2	73.0 b	97.0	115.0	90.0	165.0		6
7		0.0	111.0	0.0	100.0 b	140.0	67.0 b	93.0	107.0	103.0	217.0		7
8		0.0	115.0	0.0	100.0 b	174.0	73.0 b	90.0	111.0	111.0	213.0 *		8
9		0.0	115.0	0.0	100.0 b	123.0	83.0 b	83.0	128.0	61.0	200.0		9
10		0.0	111.0	0.0	100.0 b	128.0	80.0 b	60.0	132.0	0.0	195.0		10
11		0.0	111.0	50.0 E	90.0 b	132.0 *	56.0 a	60.0	132.0	0.0	195.0		11
12		0.0	123.0	285.0	80.0 b	66.3	73.0	60.0	132.0	0.0	200.0		12
13	N	0.0	128.0	311.0	67.0 b	0.0	100.0	80.0	144.0	0.0	200.0		13
14	O	0.0	119.0	307.0	63.0 b	0.0	103.0	93.0	157.0	0.0	187.0	N	14
15		0.0	115.0	276.0	47.0 b	25.6 a	103.0	93.0	148.0	0.0	157.0	O	15
16	F	0.0	123.0	258.0	33.0 b	47.0 b	103.0	100.0	123.0	0.0	77.8	F	16
17	L	0.0	132.0	249.0	22.0 b	70.0 b	123.0	103.0	115.0	0.0	0.0	L	17
18	O	0.0	144.0	165.0	10.0 b	93.0 b	100.0	100.0	115.0	0.0	0.0	O	18
19	W	0.0	136.0	107.0	0.0	100.0 b	97.0	97.0	119.0	0.0	0.0	W	19
20		0.0	103.0	111.0	0.0	97.0 b	90.0	100.0	132.0	0.0	0.0		20
21		0.0	0.0	111.0	0.0	93.0 b	90.0	100.0	140.0	0.0	0.0		21
22		0.0	0.0	115.0 *	0.0	93.0 b	100.0	103.0	132.0	0.0	0.0		22
23		0.0	0.0	157.0	0.0	93.0 b	103.0	107.0 *	115.0	0.0	0.0		23
24		0.0	0.0	182.0	0.0	80.0 b	107.0	107.0	111.0	0.0	0.0		24
25		0.0	0.0	204.0	0.0	70.0 b	119.0	111.0	78.0	64.9	0.0		25
26		93.0 E*	0.0	226.0	0.0	67.0 b	100.0	115.0	87.0	169.0	0.0		26
27		115.0 E	0.0	200.0	0.0	60.0 b	93.0	119.0	103.0	169.0	0.0		27
28		132.0 E	0.0	204.0	0.0	60.0 b	97.0	123.0	97.0	152.0	0.0		28
29		140.0 E	0.0	249.0		61.0 b	103.0	132.0	87.0	148.0	0.0		29
30		93.0 E	0.0	262.0		70.0 b	100.0	132.0	90.0	152.0	0.0		30
31			0.0	258.0 *		78.0 b		132.0		161.0	0.0		31
MEAN		19.1	73.9	138.3	66.5	67.1	92.0	98.2	118.1	59.2	90.8		MEAN
MAX.		140.0	144.0	311.0	271.0	174.0	123.0	132.0	157.0	169.0	217.0		MAX.
MIN.		0.0	0.0	0.0	0.0	0.0	56.0	60.0	78.0	0.0	0.0		MIN.
AC. FT.		1137	4546	8503	3691	4126	5474	6036	7026	3638	5581		AC. FT.

a - Includes CVP water  
b. - All CVP water  
E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
68.6	311	2.58	1	13	Daily Mean	0					49758

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 40	119 06 22	NW30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957 1959	1959	0.00 -3.48	LOCAL LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.0 *	5.7			0.0	8.1	0.0	13.2	15.2	11.6 *	12.5	12.5	1
2	9.0	6.0			0.0	3.5	0.0	13.2	14.8	11.0	11.6	13.9	2
3	9.0	5.4			0.0	0.0	0.0	13.5	14.8 *	11.0	11.0	13.9	3
4	8.7	5.0			0.0	0.0	0.0	13.9	14.8	11.0	11.0	12.5 *	4
5	8.4	5.0			0.0	0.0	0.0	12.5	15.8	11.0	11.9	12.2	5
6	5.4	5.2			0.0	0.0	0.0	12.5 *	16.5	11.3	12.5	11.6	6
7	8.1	5.2			0.0	0.0	0.0	13.9	16.2	11.0	12.9 *	10.4	7
8	9.6 *	5.2			0.0	0.0	0.0	14.2	16.5	11.0	12.5	10.0	8
9	7.8	5.2			0.0	0.0	0.0	14.5	16.5	10.7	12.5	10.0	9
10	5.7	5.2			0.0	0.0	0.0	14.8	11.0	11.3	11.0	10.0	10
11	5.7	5.0			0.0	0.0	0.0	15.2	7.8 *	11.3	11.0	10.4	11
12	5.2	2.7			0.0	0.0	0.0	14.8	7.5	10.4	11.3 *	10.7	12
13	4.7	0.0		N	0.0	0.0	0.0	15.2	7.8	10.4	12.5	11.0	13
14	4.2	0.0	O	O	0.0	0.0	0.0	15.2	8.1	10.4	12.9	10.4	14
15	4.4 *	0.0			0.0	0.0	0.0	15.2	7.8	10.0 *	12.2	11.9	15
16	5.2	0.0	F	F	0.0	0.0	0.0	14.5	7.8	10.0	11.6	12.5 *	16
17	5.2	0.0	L	L	0.0	0.0	0.0	14.5	7.8 *	10.0	11.6	13.2	17
18	6.0	0.0	O	O	0.0	0.0	0.0	14.5	7.5	10.0	11.6	13.5	18
19	6.5	0.0	W	W	0.0	0.0	0.0	15.2	8.1	10.0	11.9 *	14.2	19
20	6.5	0.0			0.0	0.0	0.0	14.8 *	8.1	10.4	12.2	14.5	20
21	6.5	0.0			0.0	0.0	0.0	14.5	7.8	10.0	11.9	14.5	21
22	6.2	0.0			0.0	0.0	2.7 *	14.8	7.2	10.0	12.2	12.5	22
23	5.7 *	0.0			0.0	0.0	8.4	14.8 *	6.8	9.6	12.2	11.0 *	23
24	5.0	0.0			0.0	0.0	7.8	14.5	7.8 *	9.6	11.9	10.7	24
25	4.7	0.0			4.3	0.0	8.7	14.2	10.4	10.4	11.9	10.4	25
26	4.4	0.0			8.1 *	0.0	10.4	14.2	10.7	11.9	11.9	9.3	26
27	4.4	0.0			7.8	0.0	10.4	13.9	11.0	12.9	11.6	7.8	27
28	4.2	0.0			7.5	0.0	10.7	14.2 *	11.0	12.5	11.6	7.5	28
29	5.2 *	0.0				0.0	11.0 *	14.5	11.3	12.5	13.2	7.8	29
30	6.2	0.0				0.0	11.9	14.2	11.9	11.9	13.2	8.1	30
31	6.0					0.0		14.5		12.2	12.9		31
MEAN	6.2	2.0			1.0	0.4	2.7	14.3	10.9	10.9	12.0	11.3	MEAN
MAX.	9.6	6.0			8.1	8.1	11.9	15.2	16.5	12.9	13.2	14.5	MAX.
MIN.	4.2	0.0			0.0	0.0	0.0	12.5	6.8	9.6	11.0	7.5	MIN.
AC. FT.	382	121			55	23	163	880	647	669	739	672	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
6.0	16.8	0.74	6	6	1400	0					4351

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00	LOCAL
									OCT 62	-2.00	LOCAL
Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0			0.0	95.0	0.0	0.0	17.8	22.8	23.4 *	14.1	14.9	1
2	0.0			0.0	91.2	0.0	0.0	16.8	22.4	24.0	17.8	14.1	2
3	0.0			0.0	83.4	0.0	0.0	17.4	20.0	24.0	16.8	14.1	3
4	0.0			0.0	14.3	0.0	0.0	17.8	17.8	24.0	16.8	13.8 *	4
5	0.0			0.0	6.2	0.0	0.0	17.4	18.2	24.0	19.0	15.4	5
6	0.0			0.0	0.0	0.0	0.0	16.8 *	23.4	24.0	16.0	14.3	6
7	0.1			7.5	0.0	0.0	0.0	7.4	37.6	24.0	13.4	13.0	7
8	1.3			39.0	0.0	0.0	0.0	0.0	38.3	24.0	14.3	13.0	8
9	4.5			45.6	0.0	0.0	0.0	0.0	37.6	22.8	16.4	13.8	9
10	21.0 *			56.0	0.0	0.0	0.0	0.0	37.0 *	24.8	16.4	15.4 *	10
11	32.8			83.4	0.0	0.0	15.8	0.0	37.6	25.1	16.4	14.9	11
12	34.8			87.4	0.0	0.0	27.5	0.0	28.8	24.8 *	15.8	14.9	12
13	33.4	N	N	85.0	0.0	0.0	12.4	0.0	20.4	24.4	13.8	12.4	13
14	32.8	O	O	82.6	0.0	0.0	1.3 *	5.3	21.0	24.0	13.8	9.4	14
15	32.8 *			80.8	0.0	14.6	12.5	18.2 *	19.4	24.0 *	15.8	7.0	15
16	33.4	F	F	80.8	0.0	32.8	32.8	18.2	18.2	24.4	15.8	5.4 *	16
17	34.0	L	L	84.2	0.0	37.0	28.0	17.8	19.0 *	24.4	18.6	0.0	17
18	29.4	O	O	76.4	0.0	34.0 *	29.9	18.2	20.0	24.8	24.0	0.0	18
19	21.4	W	W	78.0	0.0	31.6	28.0	20.0	21.0	24.0	28.0 *	0.0	19
20	18.6			80.8	0.0	31.6	28.0	21.4 *	21.0 E	21.4	24.0	0.0	20
21	18.6			80.8	0.0	31.6	29.4	21.9	21.0 E	21.0	19.4	0.0	21
22	18.6			84.2 *	0.0	12.1	29.9 *	22.4	21.0 E	21.0	19.4	0.0	22
23	19.0 *			93.4	0.0	1.3	31.0	21.9	21.0 E	20.4	17.4	0.0	23
24	11.8			92.6	0.0	0.4	27.0	22.8	20.4 #	20.4	15.8	0.0	24
25	2.2			92.6	0.0	0.0	23.4	22.8	20.4	17.8	16.4	0.0	25
26	1.1			98.0	0.0	0.0	21.4	22.4	21.9	13.0 E	16.8	0.0	26
27	0.5			95.0	0.0	0.0	19.0	22.4	21.9	12.4 E	16.8	0.0	27
28	0.0			96.2	0.0	0.0	19.0	21.9 *	21.4	12.4 E	15.8	0.0	28
29	0.0			99.2	0.0	0.0	18.2 *	21.4	22.4	13.0 E	16.8	0.0	29
30	0.0			100.2 *	0.0	0.0	18.2	21.4	23.4	13.0 E	16.4	1.4	30
31	0.0			100.2	0.0	0.0		21.4		12.4	16.0		31
MEAN	13.0			64.5	10.4	7.3	15.1	15.3	23.9	21.2	17.2	6.9	MEAN
MAX.	34.8			100.2	95.0	37.0	32.8	22.8	38.3	25.1	28.0	15.4	MAX.
MIN.	0.0			0.0	0.0	0.0	0.0	0.0	17.8	12.4	13.0	0.0	MIN.
AC.FT.	798			3967	575	450	898	939	1421	1303	1059	411	AC.FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
16.3	100.2		1	30		0					11821

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		REF. DATUM	
			CFS	GAUGE HT.	DATE			FROM	TD		
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0						0.0	9.0	10.6	13.1 *	4.6	8.8	1
2	0.0						0.0	9.2	10.6	12.6	8.7	7.4	2
3	0.0						0.0	8.0	10.5 *	13.1	8.3	5.4	3
4	0.0						0.0	6.8	9.8	12.6	8.4	5.4	4
5	0.0						0.0	7.1	9.9	11.6	11.4	4.5	5
6	0.0						0.0	6.6 *	10.5	11.0	11.9	4.9	6
7	0.0						0.0	3.4	14.3	12.6	7.1	5.3	7
8	0.0						0.0	0.0	14.1	11.3	5.9	6.1	8
9	0.0						0.0	0.0	14.1	11.0	6.7	6.8	9
10	0.0						0.0	0.0	14.3	11.9	6.3	7.6 *	10
11	7.9						0.0	0.0	14.4 *	11.7	6.7	8.0	11
12	14.8						0.0	0.0	13.1	12.2	5.2	7.1	12
13	16.8	N	N	N	N	N	0.0	0.0	10.6	12.2	4.3	5.0	13
14	15.7	O	O	O	O	O	0.0	0.0	10.7	12.6	4.6	3.2	14
15	16.8 *						0.0	7.2 *	10.1	12.2	4.9	2.4	15
16	17.4	F	F	F	F	F	5.9 *	9.2	9.8	12.5	9.6	3.5	16
17	17.6	L	L	L	L	L	9.0	9.9	9.8 *	12.8	16.1	0.0	17
18	16.6	O	O	O	O	O	11.3	10.4	9.9	12.6	17.0	0.0	18
19	11.7	W	W	W	W	W	9.8	9.6	9.9	11.6	15.1 *	0.0	19
20	9.5						9.0	9.5 *	11.2	10.9	13.0	0.0	20
21	9.9						10.4	8.8	11.2	11.7	7.7	0.0	21
22	11.6						12.2 *	8.1	11.0	14.4	6.5	0.0	22
23	11.4 *						11.4	8.1	10.9	14.4	6.8	0.0	23
24	6.0						10.9	8.3	11.0 *	10.2	6.6	0.0	24
25	0.0						10.0	8.8	12.2	8.8	6.0	0.0	25
26	0.0						9.0	9.2	13.4	6.1	7.4	0.0	26
27	0.0						7.8	9.5	13.8	5.8	9.8	0.0	27
28	0.0						9.2	9.9 *	13.9	6.0	8.3	0.0	28
29	0.0						6.6 *	10.1 *	14.6	5.5	9.6	0.0	29
30	0.0						6.1	10.0	14.1	4.7	7.9	0.7	30
31	0.0							10.2		4.3	8.8		31
MEAN	5.9						4.6	6.7	11.8	10.8	8.4	3.1	MEAN
MAX.	17.6						12.2	10.4	14.6	14.4	17.0	8.8	MAX.
MIN.	0.0						0.0	0.0	9.8	4.3	4.3	0.0	MIN.
AC. FT.	364						275	410	703	662	518	183	AC. FT.

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# - E AND \*

MEAN
DISCHARGE
4.3

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
20.7	3.25	8	18
			1600

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
0			

TOTAL
ACRE FEET
3115

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 06	119 01 06	SE26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL
Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.7							0.0	4.7	4.1	7.1	2.9	1
2	0.8							0.0	4.6	6.4	6.9	2.9	2
3	0.9							0.0	4.7 *	6.6	6.9	2.8	3
4	0.9							0.0	4.9	7.1	7.1	2.9 *	4
5	0.8							0.0	5.3	7.1	7.8	2.8	5
6	0.8							0.0 *	5.3	7.1	8.6	2.6	6
7	0.8							0.3	5.6	7.1	9.0	2.5	7
8	0.8							1.7	6.1	7.3	9.7	2.5	8
9	0.8							2.6	6.4	7.1	10.2	2.5	9
10	0.8							2.6 *	6.4 *	7.3	11.2	2.5	10
11	0.8							2.5	5.8	7.5	12.0	2.4	11
12	0.8							2.6	5.6	7.6	8.4	2.4	12
13	0.8							2.7 *	5.8	7.6	8.8	2.2	13
14	0.9	N	N	N	N	N	N	2.9	5.9	7.6	11.0	2.2	14
15	0.9	O	O	O	O	O	O	3.1	5.7	7.3	6.1	2.1	15
16	0.8	F	F	F	F	F	F	3.1	5.7	7.1	4.9	1.9 *	16
17	0.9	L	L	L	L	L	L	2.9	5.6 *	7.1	4.5	2.0	17
18	0.9	O	O	O	O	O	O	2.7	5.6	7.1	3.9	2.0	18
19	0.9	W	W	W	W	W	W	2.4	2.5	7.1	3.6 *	1.0	19
20	0.9							2.5 *	1.2	7.1	3.4	0.0	20
21	1.1							2.9	1.0 E	7.1	3.3	0.0	21
22	1.1						*	3.4	1.0 E	7.1	3.2	0.0	22
23	1.0							3.9 *	1.0 E	7.1	3.2	0.0 *	23
24	1.1							3.9	1.0 E	7.1	3.0	0.0	24
25	0.4							3.9	1.0 E	7.8	2.9	0.0	25
26	0.0							3.9	1.0 E	7.5	2.9	0.0	26
27	0.0							3.9	1.0 E	6.9	2.7	0.0	27
28	0.0							4.6 *	1.0 E	6.7	2.6	0.0	28
29	0.0							4.8	1.0 E	6.4	2.8	0.0	29
30	0.0							4.8	1.0 E	6.6	2.9	0.0 *	30
31	0.0							4.6		6.9	2.9		31
MEAN	0.7							2.6	3.8	7.0	5.9	1.5	MEAN
MAX.	1.1							4.8	6.4	7.8	12.0	2.9	MAX.
MIN.	0.0							0.0	1.0 E	4.1	2.6	0.0	MIN.
AC. FT.	42							157	225	431	364	89	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.8	13.2	1.86	8	11	0900	0					1308

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE				FROM	TO	
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE			1948		0.00 LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	101.4	52.4	56.5	0.0	75.0	18.8 *	25.5	33.9	32.1	130.4 *	123.2	133.4	1
2	100.8	53.4	59.9	0.0	75.5	25.8	28.0	35.8	32.1	129.8	122.6	119.6	2
3	102.0	21.5	61.8 *	0.0	71.5	25.2	32.6	36.1	32.6 *	129.8	122.0	107.6	3
4	95.0	0.0	61.8	0.0	55.0	34.4	30.2	36.1	37.0	129.8	123.2	97.6	4
5	86.2	0.0	61.8	0.0	48.0	40.6	28.0	31.4	37.8	129.8	124.4	69.4	5
6	85.1	0.0	61.8	0.0	34.2	93.8	30.6	32.1 *	37.4	129.8	124.4	24.5	6
7	87.9	0.0	61.8	0.0	27.4	120.2 *	32.6	30.2	37.0	119.0	123.2	2.0 E	7
8	84.6 *	0.0	62.2	0.0	27.4	108.3	32.6 *	12.8	61.3	119.0	121.4	2.0 E	8
9	77.8	0.0	62.2	0.0	29.4	107.6	30.6	2.0 E	83.6	125.0	123.8	2.0 E	9
10	75.5	0.0	62.2 *	0.0	46.6	101.4	31.4	2.0 E	73.2	126.2	125.6	2.0 E	10
11	68.4	0.0	61.8	0.5 E	49.0 *	98.2 *	52.0	2.0 E	56.5 *	128.0	125.6	2.0 E	11
12	66.4	0.0	61.8	0.5 E	50.0	96.2	65.4	2.0 E	49.0	129.2	128.6 *	2.0 E	12
13	62.7	0.0	61.3	0.5 E	17.5	96.9	72.1	2.0 E	45.1	129.2	129.8	2.0 E	13
14	58.0	0.0	61.8	31.9	0.0	95.0	74.4	0.0	47.0	129.2	128.0	2.0 E	14
15	58.4 *	0.0	62.2	58.0	0.0	58.0	76.0 *	0.0	48.6	124.4	126.8	2.0 E	15
16	60.4	0.0	62.2	63.8	0.0	37.0	79.0	0.0	49.0	123.8	125.6	2.0 E	16
17	62.2	0.0	60.8 *	66.4	0.0	35.8	79.5	0.0	48.6 *	117.6	124.4	2.0 E	17
18	65.4	0.0	60.4	66.4	0.0	33.4	79.0	0.0	48.6	120.2	123.2	2.0 E	18
19	59.4	0.0	63.2	64.9	0.0	33.9	77.8	0.0	79.5 *	124.4	120.8 *	2.0 E	19
20	56.0	0.0	58.4	65.4	0.0	33.9	77.8	0.0	105.8	125.0	124.4	2.0 E	20
21	56.5	0.0	7.2	65.4 *	0.0	33.0	76.0	3.5	95.6	124.4	128.0	2.0 E	21
22	57.0	0.0	0.0	65.9	0.0	33.0	75.5 *	16.4 *	87.3	123.8	128.0	2.0 E	22
23	58.0	0.0	0.0	67.4	0.0	33.0	76.6	25.2	87.3	123.2	127.4	2.0 E	23
24	57.5	0.0	0.0	67.9	0.0	32.6	49.0	28.0	86.8 *	123.2	104.6	2.0 E	24
25	59.9	38.9	0.0	68.9	0.0	32.1 *	30.6	28.3	115.6	123.2	86.8	2.0 E	25
26	59.9	64.9 *	0.0	70.0	0.0	31.8	31.0	26.6	128.0	122.6	86.8	2.0 E	26
27	59.4	61.8	0.0	70.0	0.0	34.4	31.0	26.2	126.8	119.6	113.8	2.0 E	27
28	58.4	59.9	0.0	70.0 *	0.0	36.1	31.0	28.6	126.2	123.2	126.8	2.0 E	28
29	55.5 *	57.0	0.0	72.1	0.0	35.8	31.0	28.3 *	130.4	124.4	134.8	2.0 E	29
30	52.0	56.0	0.0	73.8	0.0	29.0	31.0	28.6	130.4	124.4	139.6	2.0 E	30
31	52.4		0.0	74.4		25.5		31.4		124.4	139.0		31
MEAN	69.0	15.5	39.8	38.2	21.7	53.2	49.9	17.1	71.9	125.0	122.8	20.0	MEAN
MAX.	102.0	64.9	63.2	74.4	75.5	120.2	79.5	36.1	130.4	130.4	139.6	133.4	MAX.
MIN.	52.0	0.0	0.0	0.0	0.0	18.8	25.5	0.0	32.1	117.6	86.8	2.0	MIN.
AC. FT.	4245	924	2446	2349	1203	3274	2971	1050	4277	7688	7550	1190	AC. FT.

E — ESTIMATED  
NR — NO RECORD  
\* — DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# — E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
53.7	141	3.42	8	30	1700	0					39167

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CF3	GAGE HT	OATE				FROM	TO	
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE			1942		0.00 LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	CO3925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0.0	6.0	0.0	7.6	5.6	13.5	5.0	7.9	1
2					0.0	4.2	0.0	7.5	4.1	13.5	4.0	7.6	2
3					0.0	0.0	0.0	7.8	2.9	13.5	1.0	6.5	3
4					0.0	0.0	0.0	8.0	0.0	12.5	0.0	3.1	4
5					0.0	0.0	0.0	7.6	1.2	12.1	0.2	0.2	5
6					0.0	0.0	0.0	7.4 *	1.9	11.5	1.8	0.0	6
7					0.0	0.0	0.0	7.1	2.4	7.3	3.3	0.0	7
8					0.0	0.0	0.0	3.5	2.5	4.0	4.6	0.0	8
9					0.0	0.0	0.0	3.7	2.8	2.9	5.2	0.0	9
10					0.0	0.0	0.0	5.4	6.5	2.4	4.6	1.1	10
11					0.0	0.0	0.0	4.1	6.5	2.1	4.5	2.6	11
12					0.0	0.0	0.0	3.2 E	7.3	3.8 *	4.7	2.6	12
13					0.0	0.0	0.0	3.2 E	8.0	5.0	4.4	1.4	13
14	N	N	N	N	0.0	0.0	0.0	3.3 E	8.7	4.8	2.9	0.0	14
15	O	O	O	O	0.0	0.0	0.0	3.3 E	6.9	4.8	3.7	0.0	15
16					0.0	0.0	0.0	2.3	5.4	7.4	1.4	0.0	16
17	F	F	F	F	0.0	0.0	0.0	0.0	5.2 *	9.6	1.1	0.0	17
18	L	L	L	L	0.0	0.0	0.0	0.0	5.2	7.5	0.7	0.0	18
19	O	O	O	O	0.0	0.0	2.4	0.0	5.2	4.0	0.8	0.0	19
20	W	W	W	W	0.0	0.0	4.3	0.0	3.6	2.1	0.8	0.0	20
21					0.0	0.0	4.6	0.0	2.5	1.3	1.2	0.0	21
22					0.0	0.0	4.7 *	0.0	1.1	4.7	1.3	0.0	22
23					0.0	0.0	4.9	0.0	0.4	9.4	1.3	0.0	23
24					0.0	0.0	5.1	0.0	0.2	9.0	1.5	0.0	24
25					0.0	0.0	5.2	0.0	3.3	11.1	1.8	0.0	25
26					0.0	0.0	3.8	0.0	3.9	14.3	1.5	0.0	26
27					3.2	0.0	2.6	0.0	3.4	12.3	0.4	0.0	27
28					5.9	0.0	0.0	0.0	8.2	10.6	1.9	0.0	28
29					0.0	0.0	0.0	4.2 *	11.9	12.3	7.4	0.0	29
30					0.0	0.0	4.4	6.8	13.3	13.1	8.3	0.0	30
31					0.0	0.0	0.0	7.1	0.0	7.8	8.3	0.0	31
MEAN					0.3	0.3	1.4	3.3	4.7	8.1	2.9	1.1	MEAN
MAX.					5.9	6.0	5.2	8.0	13.3	14.3	8.3	7.9	MAX.
MIN.					0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	MIN.
AC. FT.					18	20	83	205	278	496	178	65	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.8	14.8	2.30	7	26	1300	0					1343

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE			1942		0.00 LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	54.6	0.0	82.3	0.0	0.0	0.0	1.5 E	148.5 a	210.7	176.5	1
2		0.0	54.6 *	0.0	83.7	0.0	0.0	0.0	1.5 E	152.9 a	210.2 a	176.0	2
3		0.0	55.4	0.0	77.1	0.0	0.0	0.0	1.5 E	150.0 a	210.2 a	153.9 *	3
4		0.0	55.0	0.0	42.7	0.0	0.0	0.0	1.5 E	151.1 a	207.4 a	121.5	4
5		0.0	54.6	0.0	0.0	0.0	0.0	0.0	1.5 E	154.3 a	206.0 a	117.6	5
6		0.0	54.2	0.0	0.0	50.3	0.0	0.0	1.5 E	154.3 a	206.9	117.6	6
7		0.0	55.0	0.0	0.0	122.0	0.0	0.0	1.5 E	154.3	211.2 *	87.6	7
8		0.0	55.0	12.8	0.0	119.0	0.0	0.0	1.5 E	153.4	211.7	85.1	8
9		0.0	54.2 *	36.6	0.0	113.7	0.0	0.0	1.5 E	162.5	211.7	96.4	9
10		0.0	53.4	49.3	0.0	112.8	0.0	0.0	1.5 E	175.0	211.2	110.8	10
11		0.0	53.4	53.0	0.0	108.9 *	49.7	0.0	1.5 E	204.0	211.2	110.8	11
12		0.0	53.8	60.0	0.0	43.7	111.8	0.0	1.5 E	203.5 *	210.2 *	102.2	12
13	N	0.0	54.6	57.0	0.0	0.0	110.4	0.0	1.5 E	197.2	210.2	94.0	13
14	O	0.0	53.8	56.2	0.0	0.0	108.9 *	0.0	1.5 E	196.8	208.8	84.2	14
15		0.0	52.6	55.0	0.0	0.0	118.5	0.0	1.5 E	200.5	206.5	92.0	15
16	F	0.0	51.2	55.8	0.0	0.0	131.1	0.0	1.5 E	202.5	187.6	93.5 *	16
17	L	0.0	49.3 *	56.2	0.0	0.0	71.1	0.0	1.5 E	210.2	164.4	97.4	17
18	O	0.0	50.8	56.2	0.0	0.0	0.0	0.0	1.5 E	216.4	163.9	95.5	18
19	W	0.0	50.0	58.7	0.0	0.0	0.0	0.0	1.5 E	214.1	159.6 *	97.9	19
20		0.0	49.0	59.2	0.0	0.0	0.0	0.0	1.5 E	214.1	158.7	100.3	20
21		0.0	5.3	59.2 *	0.0	0.0	0.0	0.0	1.5 E	216.9	156.3	102.2	21
22		0.0	0.0	56.6	0.0	0.0	0.0	0.0	1.5 E	212.6	157.2	105.0	22
23		0.0	0.0	57.4	0.0	0.0	0.0	0.0	1.5 E	208.8	157.2	103.6 *	23
24		0.0	0.0	57.9	0.0	0.0	0.0	0.0	1.5 E	206.9	158.2	102.2	24
25		0.0	0.0	58.7	0.0	0.0	0.0	0.0	56.9	202.5	162.0	101.7 a	25
26		46.1 *	0.0	60.0	0.0	0.0	0.0	0.0	153.9 *	206.9	165.4	101.2	26
27		50.0	0.0	56.6	0.0	0.0	0.0	0.0	145.1	209.8	123.5	101.2	27
28		49.3	0.0	57.0	0.0	0.0	0.0	0.0	146.5	209.8	84.6	99.3	28
29		49.7	0.0	57.9	0.0	0.0	0.0	1.5 E	147.0	208.8	139.7	96.4	29
30		51.2	0.0	62.2	0.0	0.0	0.0	1.5 E	146.0	208.4	198.2	98.8	30
31				72.9		0.0		1.5 E		209.3	198.2		31
MEAN		8.2	34.5	42.7	10.2	21.6	23.4	0.1	27.7	190.9	183.2	107.4	MEAN
MAX.		51.2	55.4	72.9	83.7	122.0	131.1	1.5 E	147.0	216.9	211.7	176.5	MAX.
MIN.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5 E	148.5	84.6	84.2	MIN.
AC. FT.		489	2122	2623	567	1330	1391	9	1649	11735	11264	6392	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*  
 a - Includes CVP water

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
54.7	219	7.79	7	21	0600	0					39571

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL
Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.											

TABLE B-3 (Cont.)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	802	447	435	462	642	1055	778	846	1244	1870	1997	1354	1
2	803	462	453	490	610	1022	1232	867	1272	1952	1990	1362	2
3	833	474	459	512	608	1091	732	864	1219	1996	1978	1478	3
4	866	460	447	540	603	1077	657	875	1208	2012	1972	1564	4
5	876	461	443	546	615	1079	689	888	1262	1992	1997	1580	5
6	876	449	436	535	631	1080	679	951	1468	1989	1973	1516	6
7	796	444	429	465	631	1072	658	1017	1446	1982	1963	1446	7
8	504	525	424	477	629	905	645	1051	1437	1984	1970	1419	8
9	560	484	429	486	644	698	721	1016	1480	1977	1957	1436	9
10	510	435	434	474	651	676	699	995	1511	1974	1916	1382	10
11	455	380	444	477	648	762	678	953	1525	1950	1905	1370	11
12	405	336	389	479	742	778	683	937	1665	1949	1896	1390	12
13	350	372	179	488	749	770	653	924	1807	1958	1859	1376	13
14	359	378	87	462	825	768	663	929	1887	1940	1825	1248	14
15	340	400	441	511	878	774	687	902	1846	1954	1816	1137	15
16	324	431	422	563	880	746	819	866	1855	1962	1791	1125	16
17	334	378	417	659	949	727	888	830	1876	1965	1739	1140	17
18	327	390	419	677	1074	731	897	832	1885	1940	1715	1011	18
19	311	438	423	663	1070	771	872	805	1864	1931	1706	939	19
20	311	349	425	660	1045	781	852	744	1790	1918	1699	897	20
21	350	393	428	722	1004	776	882	730	1781	1939	1694	843	21
22	314	419	431	703	1003	767	898	752	1649	1978	1664	805	22
23	326	446	431	660	938	738	896	842	739	1971	1597	794	23
24	372	438	434	652	946	694	896	879	1871	1932	1547	810	24
25	392	390	430	640	1031	671	888	899	1858	1957	1526	930	25
26	385	379	420	634	1046	663	848	1010	1858	1949	1526	940	26
27	338	353	433	666	984	637	830	1030	1863	1957	1573	937	27
28	342	389	447	634	1100	628	802	1087	1904	1950	1603	936	28
29	352	393	460	639		620	814	1209	1884	1961	1603	939	29
30	351	416	462	644		636	836	1222	1853	1978	1571	1010	30
31	387		475	651		636		1226		1973	1433		31
MEAN	479	417	416	576	828	801	792	935	1627	1959	1774	1170	MEAN
MAX.	876	525	475	722	1100	1055	1232	1226	1904	2012	1997	1580	MAX.
MIN.	311	336	87	462	603	620	645	730	739	1870	1433	794	MIN.
AC. FT.	29457	24811	25579	35447	45969	49248	47151	57477	96807	120476	109093	69648	AC. FT.

- ESTIMATED  
- NO RECORD  
- DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
- E AND \*

MEAN
DISCHARGE
1000

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
2112		7	4	Daily Mean

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
87		12	14	Daily Mean

TOTAL
ACR. FEET
711163

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000 9290a	461.37 454.94	11-19-50 12-6-66	1893-DATE				0.0 0.0	Mean sea level

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Canal and Water Company. Drainage area is 2,407 square miles.

<sup>a</sup>Maximum flow since construction of Isabella Dam in 1954.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C05180	KERN RIVER AT SECOND POINT

DAY	OCT.	NOV.	DEC.	** JAN.	** FEB.	MAR.	** APR.	** MAY	** JUNE	JULY	AUG.	SEPT.	DAY
1	186		0.0	52	305	230	110	88	410	591	619	296	1
2	181		0.0	98	340	251	171	80	436	644	646	295	2
3	187		0.0	127	379	256	130	88	463	675	643	296	3
4	193		38	131	361	254	96	101	479	666	636	296	4
5	206		60	131	373	252	90	118	537	596	637	274	5
6	189		63	97	398	259	121	166	636	632	599	243	6
7	143		63	41	401	255	158	215	685	631	610	245	7
8	38		63	39	418	167	160	212	738	616	627	241	8
9	79		63	38	457	111	166	212	745	612	618	241	9
10	76		63	37	486	156	192	213	722	620	611	237	10
11	66		64	36	498	172	207	213	663	626	626	236	11
12	75		64	36	502	168	207	213	582	640	607	238	12
13	66		27	35	500	154	207	215	652	660	615	239	13
14	45		6	35	502	114	177	212	764	673	641	238	14
15	26	N O	124	35	502	91	155	208	774	658	649	237	15
16	0.0		117	32	500	91	156	210	792	596	673	237	16
17	0.0	F	117	30	491	65	157	209	744	594	700	207	17
18	0.0	L	118	30	436	32	174	212	729	596	687	188	18
19	0.0	O	118	30	401	60	174	197	655	611	655	208	19
20	0.0	W	78	28	388	92	174	201	608	616	596	214	20
21	0.0		49	26	360	87	178	218	580	625	547	165	21
22	0.0		49	24	332	86	174	216	416	620	513	122	22
23	0.0		49	26	295	88	167	221	277	630	442	149	23
24	0.0		48	28	279	92	159	237	617	601	412	146	24
25	0.0		48	74	271	95	154	245	591	617	405	167	25
26	0.0		47	104	251	87	134	243	567	625	405	184	26
27	0.0		46	144	229	83	92	241	585	610	430	186	27
28	0.0		44	166	244	111	92	253	612	622	431	174	28
29	0.0		42	196		98	90	290	571	601	371	149	29
30	0.0		42	241		107	91	318	553	581	319	159	30
31	0.0		46	294		88		371		580	323		31
MEAN	56.6		56.6	78.7	389	137	150	208	606	622	558	217	MEAN
MAX.	206		124	294	502	259	207	371	792	675	700	296	MAX.
MIN.	0		0	24	229	32	90	86	277	580	319	122	MIN.
AC. FT.	3484		3483	** 4843	** 21618	8434	** 8951	** 12781	** 36065	38220	34304	12910	AC. FT.

\*\* Includes Friant-Kern water

- ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
256	792	0	185091
	GAGE HT.	GAGE HT.	
	MO. DAY	MO. DAY	
	6 16	10 16	
	TIME	TIME	
	Daily	Daily	
	Mean	Mean	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE				FROM	TO	
35 18 02	119 15 25	SE23 30S 25E									
Station located 0.5 mile west of Highway 43 on Kern River. Records furnished by Buena Vista Water Storage District. Tabulated discharge is the regulated flow.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

INSUFFICIENT DATA TO PUBLISH

E — ESTIMATED  
NR — NO RECORD  
\* — DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# — E AND \*

MEAN
DISCHARGE

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL
ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL
Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).											

## DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations and Maintenance. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin River, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria normally used by the Department.

**TABLE B-4**  
**DIVERSIONS - SAN JOAQUIN RIVER**  
(Fremont Ford Bridge to Gravelly Ford)  
October 1973 through September 1974

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE- FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON	136.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS	186.0														
San Luis Canal Company	186.6 L	Gravity	7900	6264	1904	0	5956	12914	9780	22742	27830	29068	27640	19418	170696
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA															
--MENDOTA DAM--	208.63														
Central California Irrigation District	208.8 L	Gravity	19956*	7791*	63	966	18856	45778	40828	72472	76002*	83587*	83780*	43585	a 493664**
--FRESNO SLOUGH--	209.0 L														
--DELTA-MENDOTA CANAL-- b	(0.2L)														
Firebaugh Canal Company b	(0.4L)		1861	2027	16	817	4056	2235	3870	8043	6006	7646	6694	2624	a 45895
M. Jensen															
Dudley, et al, (Marchini Bros)	b (3.4L)		0	0	0	0	397	349	0	294	430	270	218	26	1984
State of California Mendota Waterfowl Management	b (6.45-8.20)		4479	2089	723	0	147	659	545	1537	3092	1371	2799	4792	22233
Fresno Slough Water District	b (9.20-10.50)		0	0	0	0	817	182	321	581	789	938	819	161	4608
--JAMES BYPASS-- b	(11.80R)														
Mason A. Loundy c			268	399	0	0	252	643	391	619	722	1035	1152	639	6120
Reclamation District 1606 c	(1.50)		0	0	0	0	61	0	0	107	194	230	208	0	800
James Irrigation District c	(4.4)		345	0	0	543	6619	791	811	1379	4729	8817	8769	1242	34045
Tranquillity Irrigation District b	(12.00-13.75)		56	0	0	0	5911	1833	1458	3027	5266	7220	5814	1061	31646
Melvin D. Hughes b	(12.20)		0	0	0	0	14	0	0	26	14	14	0	20	88
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		3312	936	206	67	3533	5584	4229	7684	8934	10072	9110	7037	60704
State Center Land Company	d 1-6		0	0	0	0	0	0	0	0	0	0	0	0	0
M. Beck	e 1-8		32	26	10	0	0	0	0	0	0	0	0	0	68
Tulle Gun Club	f 1-8		14	0	0	0	0	0	0	0	0	0	10	30	54
Westlands Water District			0	156	0	0	2963	3043	819	2027	4288	4388	2727	391	g 20802
Grasslands			21060	4290	0	0	0	0	0	0	0	0	0	7958	33308
J. W. Wilson			0	0	0	0	147	0	0	00	123	171	100	0	541
Laguna Water District			0	0	0	0	0	0	0	0	200	280	200	0	680
Tranquillity Gun Club			80	0	0	0	0	0	0	0	0	0	80	0	160
Cole Gun Club			60	0	0	0	0	0	0	0	0	0	0	0	60
Patos Unlimited			106	0	0	0	0	0	0	0	0	0	0	0	106
120 Duck Club			60	0	0	0	0	0	0	0	0	0	0	0	60
Pacheco Water District			0	0	0	0	0	0	0	0	2001	3499	2501	0	8001
Mercy Springs Water District			0	0	0	0	0	0	0	0	750	750	750	0	2250
--SAN JOAQUIN RIVER AT CHOWCHILLA BYPASS--	219.83														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			59589	23978	2922	2393	49729	73291	63052	120538	141370	159356	153371	88984	938573
Average cubic feet per second			969	403	48	39	895	1192	1060	1960	2376	2592	2494	1495	1296
Monthly use in percent of seasonal			6.3	2.6	0.3	0.3	5.3	7.8	6.7	12.8	15.1	17.0	16.3	9.5	

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and do not include operational spill. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

- \* Includes purchased and transferred water.
- \*\* Includes filling of San Luis Drain -- not charged to District as follows: October, 68 acre-feet; November, 122 acre-feet.
- a. Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
- b. Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0 L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
- c. Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80 R. Distance from Fresno Slough and bank locations of diversions are shown in parentheses.
- d. One 6-inch pump located on arm of slough at SW corner of S. 12, T. 14S, R. 15E.
- e. One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14S, R. 15E.
- f. One 8-inch pump located on arm of slough adjacent to M. Beck.
- g. Total does not include deliveries under separate agreement by San Luis Water District.

TABLE B-5

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS  
October 1973 through September 1974

WATER USER	DIVERSION												ACREAGE IRRIGATED		
	OCT.	NOV	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG.	SEPT	TOT4L	GENERAL	RICE
<u>Friant-Kern Canal</u>	San Joaquin River <sup>a</sup>														
Total acre-feet diverted	47613	26174	0	43074	137391	136467	217929	230497	241499	241194	242975	103055	1667868	Not Available	
Average cubic feet per second	774	440	0	701	2470	2219	3660	3750	4060	3920	3950	1730	2300		
Monthly use in percent of seasonal	2.8	1.6	0	2.6	8.2	8.2	13.1	13.8	14.5	14.4	14.6	6.2			
<u>Madera Canal</u>															
Total acre-feet diverted	20	0	0	29108	9031	21309	37964	59386	72049	79237	71202	16074	395380	Not Available	
Average cubic feet per second	0.3	0	0	473	163	347	638	966	1210	1290	1160	270	546		
Monthly use in percent of seasonal	0	0	0	7.4	2.3	5.4	9.6	15.0	18.2	20.0	18.0	4.1			
<u>Merced Irrigation District</u>	Merced River														
Main Canal	19367	2350	6587	4864	3880	25686	50984	105401	107218	115479	106575	73435	b 621826	c 112121	0
Northside Canal	998	2	151	123	99	561	2061	4516	4409	4709	4143	3051	24823	c 4663	0
Total acre-feet diverted	20365	2352	6738	4987	3979	26247	53045	109917	111627	120188	110718	76486	646649	116784	
Average cubic feet per second	331	40	110	81	72	427	891	1788	1876	1955	1801	1285	893		
Monthly use in percent of seasonal	3.1	0.4	1.0	0.8	0.6	4.1	8.2	17.0	17.3	18.6	17.1	11.8			
<u>Turlock Irrigation District</u>	Tuolumne River														
Total acre-feet diverted	15814	8013	13494	2229	7210	31089	64503	97703	96616	117581	98286	69139	d 621677	e 170343	
Average cubic feet per second	257	135	219	36	130	506	1084	1589	1624	1912	1598	1162	859		
Monthly use in percent of seasonal	2.5	1.3	2.2	0.4	1.2	5.0	10.4	15.7	15.5	18.9	15.8	11.1			
<u>Modesto Irrigation District</u>															
Total acre-feet diverted	10108	9582	1109	0	8622	19983	32604	61133	54869	58324	54825	42774	f 353933	g 62167	524
Average cubic feet per second	164	161	18	0	155	325	548	994	922	949	892	719	489		
Monthly use in percent of seasonal	2.9	2.7	.3	0	2.4	5.6	9.2	17.3	15.5	16.5	15.5	12.1			
<u>Waterford Irrigation District</u>															
Total acre-feet diverted	1161	0	0	0	0	2673	4170	7588	7451	8198	7255	5324	h 43820	i 7521	200
Average cubic feet per second	19	0	0	0	0	43	70	123	125	133	118	89	61		
Monthly use in percent of seasonal	2.6	0	0	0	0	6.1	9.5	17.3	17.0	18.7	16.6	12.2			
<u>Oakdale Irrigation District</u>	Stanislaus River														
Northside Canal	2737	0	0	0	0	2343	5939	23786	23199	23064	19994	19418	120480	j 20100	Not Available
Southside Canal	4113	0	0	0	0	1360	10778	31434	31114	31767	28360	27005	165931	k 38650	
Total acre-feet diverted	6850	0	0	0	0	3703	16717	55220	54313	54831	48354	46423	286411	m 58750	
Average cubic feet per second	111	0	0	0	0	60	281	898	913	892	786	780	396		
Monthly use in percent of seasonal	2.4	0	0	0	0	1.3	5.8	19.3	19.0	19.1	16.9	16.2			
<u>South San Joaquin Irrigation District</u>															
Total acre-feet diverted	8594	0	0	0	942	29265	30041	54827	49641	49989	39371	20989	283659	n 65038	230
Average cubic feet per second	140	0	0	0	17	476	505	892	834	813	640	353	392		
Monthly use in percent of seasonal	3.0	0	0	0	0.3	10.3	10.6	19.4	17.6	17.6	13.9	7.4			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.

b An additional 63,916 acre-feet of water was pumped from wells.

c Of this acreage, 2,722 were double-cropped. Does not include an undetermined amount of riparian water users acreage.

d An additional 148,332 acre-feet of water was pumped from wells.

e Of this acreage, 36,535 were double cropped.

f An additional 19,550 acre-feet of water was pumped from wells.

g Of this acreage, 9,000 were double cropped.

h An additional 639 acre-feet of water was pumped from wells.

i Of this acreage, 493 were double cropped.

j Of this acreage, 860 were double cropped.

k Of this acreage, 590 were double cropped.

m This acreage also received 32,618 acre-feet of water from wells and controlled drainage.

n This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 5,285 were double cropped.

TABLE B-6

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS

October 1973 through September 1974

WATER USER	MILEPOST FROM CANAL NEAO		IN ACRE-FEET												TOTAL
	FROM	TO	OCT.	NOV	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Delta-Mendota Canal															
Plain View Water District	4.22	20.96	430	5	3	3	196	1236	1383	3335	3261	3767	3352	1749	18720
The Westside Irrigation District	14.79		0	0	0	0	0	49	53	1874	1323	2227	1505	137	7169
Hospital Water District	18.05	30.96	432	6	1	24	934	2819	2807	5124	5202	5581	5066	2643	30639
Banta-Carbena Irrigation District	20.42		0	0	6	0	422	123	313	3489	785	3284	1950	104	10476
Kern Canon Water District	31.31	35.18	68	0	0	1	403	929	1630	909	1583	1314	1287	507	8631
West Stanislaus Irrigation District	31.31	39.14	0	2	0	0	0	332	5004	6167	8127	10333	9891	646	4050
Del Puerto Water District	35.73	42.51	69	0	0	2	760	1461	1197	3178	3257	2533	2274	1228	15959
Salado Water District	42.10	46.85	2	0	0	0	749	874	1377	1940	1979	2124	1587	385	11017
Patterson Water District	42.51		76	300	0	0	960	292	545	1222	1086	1083	1654	116	7334
Sunflower Water District	44.22	52.02	93	0	0	0	411	1177	1709	2368	2828	2345	2472	1373	14776
Orestimba Water District	46.83	51.41	11	43	0	70	568	1675	2527	3313	2468	3299	2763	861	17598
Foothill Water District	51.65	57.46	362	2	3	3	657	948	904	2107	2021	2166	1643	1284	12100
Davis Water District	53.64	56.82	63	0	0	0	284	499	278	917	1005	908	595	496	5045
Mustang Water District	56.80	62.67	147	45	0	0	325	885	891	2523	2537	2545	2632	1351	13881
Central California Irrigation District	58.26	76.06	42	69	4	0	1057	4098	3715	8795	11189	11978	12550	5953	59450
Quinto Water District	64.32	67.55	27	0	0	0	85	401	516	974	1198	1180	1358	740	6479
Centinella Water District	66.20		25	0	0	0	0	78	141	342	419	451	386	201	2043
Romero Water District	66.70	68.03	44	0	0	0	0	261	388	662	495	479	864	537	3730
San Luis Water District, Municipal and Industrial	69.21		8	2	0	0	2	2	11	18	20	19	19	17	118
San Luis Water District	69.21	90.53	1495	1740	2549	4852	8904	11288	4649	9404	12722	13269	12103	5438	88413
William Affonso	80.03		0	0	0	0	0	19	19	30	41	34	37	22	202
Grassland Water District	70.00		11133	2245	0	0	0	0	0	0	0	0	0	4241	17619
Sam Namburg Farms	90.53		2	2	2	1	2	2	2	3	4	4	3	5	32
Panoche Water District	93.25	96.70	3485	3054	1319	881	6437	7740	4159	8715	9513	12168	8704	2565	68740
Eagle Field Water District	93.27	94.57	235	0	0	0	424	568	72	411	811	1004	944	335	4805
Oro Loma Water District	95.50	96.62	0	0	0	0	87	53	549	920	985	1029	900	190	4719
West Side Golf Club	95.95		10	7	4	6	7	10	13	25	32	30	23	19	186
Mercy Springs Water District	97.70	99.81	198	0	0	0	0	174	1349	2482	2439	2525	2029	233	11428
Panoche Water District, Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	12
Widren Water District	102.03		0	0	0	0	0	42	83	44	362	287	359	84	1666
Broadview Water District	102.95		715	976	1529	377	1202	1518	449	1871	3047	2558	935	121	15298
Firebaugh Canal Company	109.45		0	0	0	2608	0	0	327	4665	6849	7321	7369	54	29193
State Fish and Game Salmon Run			0	0	0	0	0	0	0	0	0	0	0	0	0
San Luis Drain	111.03				260	61	60	50	62	1140	210	280	180	130	1433
Total			19173	8499	5681	8890	24937	39604	37123	78380	87799	98126	87434	33766	529412
Net Deliveries DMC to Mendota Pool			71483	28251	4367	0	48282	77025	28838	105780	96176	72816	167776	102594	803388
Net Deliveries DMC to O'Neill Forebay			131065	144304	87938	68541	120566	47451	91509	89719	85001	8122	26573	62462	1052251
Madera Canal															
Madera Irrigation District	6.10	32.2	127	0	0	0	6169	15241	19426	32400	43216	48612	39970	3329	208490
Adobe Ranch	20.6		0	0	245	2	0	0	0	0	0	0	0	99	346
Chowchilla Water District	35.9		0	0	0	0	1002	5603	5945	25770	27469	30611	29964	12058	138422
Total			127	0	245	2	7171	20844	25371	58170	70685	79223	69930	15486	347258
Millerton Lake															
Fresno County Water Works #18			7	4	4	2	3	4	6	14	18	19	18	15	114
County of Madera			0	2	1	1	0	1	1	1	2	2	2	1	14
Total			7	6	5	3	3	5	7	15	20	21	20	16	128

TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS  
October 1973 through September 1974

WATER USER	MILEPOST FROM CANAL HEAD		IN ACRE-FEET												TOTAL
	FROM	TO	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
								Friant-Kern Canal							
Garfield Water District	7.53		127	32	0	0	247	99	281	688	663	679	581	340	3737
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	0	0
International Water District	14.9		127	45	0	0	0	44	82	208	189	234	214	165	1308
Academy Water District	17.63		0	0	0	0	0	0	0	0	0	0	0	0	0
Round Mountain Ranch	20.22		0	0	0	0	0	0	0	0	0	2	7	0	9
Consolidated Irrigation District	28.50		0	0	0	30000	14500	13000	40000	0	0	0	0	0	97500
Last Chance Water Ditch Company	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Liberty Water District	28.50		0	0	0	1500	0	0	0	0	0	0	0	0	0
Corcoren Irrigation District	28.50		0	0	0	3000	2924	0	0	0	0	0	0	0	5924
Stratford Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District	28.50 & 95.64		0	0	0	0	0	0	0	0	0	0	0	0	0
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	0	9149	11851	21000
Fresno Irrigation District	25.51 & 28.50		13	9	0	0	45	11293	708	8	4830	18205	21856	26	56993
Murphy Slough Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Cohn Central Consolidated R.D. #761	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings County Water District	28.50 & 71.29		0	0	0	15000	11288	2500	10000	5262	882	0	0	0	44932
Hills Valley Irrigation District	41.12		60	7	0	0	0	0	0	34	110	133	43	0	387
Orange Cove Irrigation District	35.87 53.31		1236	817	0	0	0	3	543	5361	5594	7378	6755	5386	33073
City of Orange Cove	43.44		38	0	0	0	0	8	33	56	60	86	81	61	423
Stone Corral Irrigation District	56.90 64.40		303	117	0	0	0	0	276	1325	1569	1918	2131	1104	8743
Ivanhoe Irrigation District	65.04 68.13		994	242	0	0	75	0	22	1434	1691	2899	3359	1872	12588
Tulare Irrigation District	68.14 71.29		0	0	0	0	32026	17233	25054	28408	24815	17869	32063	9699	187167
Lakeside Irrigation District	69.42		0	0	0	0	3685	1093	407	0	0	0	0	0	5185
Kaweah Delta Water Conservation District	69.08 71.29		0	0	0	0	0	2500	28818	26027	1098	0	0	0	58443
Exeter Irrigation District	72.52 79.24		1339	392	0	0	137	334	1059	3479	3869	4671	4322	1755	21357
Lewis Creek Water District	81.54		72	52	0	0	0	10	12	218	263	283	307	172	1389
Lindsay-Strathmore Irrigation District	85.56		1765	811	0	0	0	0	146	92	701	3593	4306	4191	15605
Lindmore Irrigation District	86.17 91.12		2461	950	0	0	887	1511	2375	6743	9258	10780	10548	5083	50596
Porterville Irrigation District	93.93 98.62		462	393	0	0	1073	2543	3104	3312	4400	4500	3287	1954	25028
Lower Tule Irrigation District	95.67 98.62		10923	11082	0	0	16969	20858	21961	34324	40465	30887	30251	13447	231167
Tea Pot Dome	99.35		333	96	0	0	23	8	129	892	860	1045	1009	920	5315
Saucelito Irrigation District	98.62 107.37		1073	233	24	0	1475	2904	4848	5227	7484	9094	8289	1219	41870
Cloer Community Service District	101.60		8	0	0	0	21	0	20	0	0	0	0	0	49
Terra Bella Irrigation District	102.65		751	388	0	0	0	53	391	3063	3088	3781	3902	3178	18595
Pixley Irrigation District	102.69		853	0	0	0	1725	1432	1158	3471	6159	7800	7112	1204	30914
Delano-Earlhart Irrigation District	109.48 118.45		5258	3579	172	0	5584	16379	15269	20644	31688	32363	24722	11823	167481
Alpaugh Irrigation District	112.96		0	0	0	0	200	0	0	1000	2000	2493	2559	0	8252
Southern San Joaquin Municipal Utility District	117.44 127.97		3781	3298	366	0	3166	16273	12142	16986	23856	28130	22732	10055	140805
Rag Gulch Water District	117.96		395	192	0	0	307	0	0	0	2366	0	0	0	3260
Kern County Water Agency	130.03		0	0	0	0	0	0	0	1000	0	0	0	0	1000
Shafter-Wasco Irrigation District	134.42 137.17		2383	1045	167	24	3523	6855	4007	7429	11652	13743	11330	4233	66391
Rosedale Rio Bravo Water Storage District	151.81		0	0	0	0	4790	0	11005	16370	7284	0	0	0	39449
Buena Vista Water Storage District	151.81		0	0	0	0	6091	0	3000	3699	6243	0	0	0	19033
Arvin-Edison Water Storage District	151.80		9549	7664	2729	282	5905	18072	26630	29628	30583	31744	28577	7698	199061
Styrotek, Inc.	116.40		0	0	0	0	0	0	0	0	0	0	0	59	59
Total			44304	31444	3478	49806	116666	135005	213480	226388	233720	234310	239492	97495	1625588

Data furnished by U. S. Bureau of Reclamation. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries do not include operational spill.

a Does not include construction water. Hidden and Buchanan Dams as follows: October - 55 acre-feet; November - 4 acre-feet; December - 17 acre-feet; January - 1 acre-foot; February - 5 acre-feet; March - 9 acre-feet; April - 1 acre-foot; August - 159 acre-feet; and September - 53 acre-feet.

b Does not include operational spill as follows: November - 2 acre-feet; January - 696 acre-feet; February - 2 acre-feet; March - 2 acre-feet; and April - 3 acre-feet.

TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT<sup>a</sup>  
October 1973 through September 1974

WATER USER	IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Delta Pumping Plant (Inflow to California Aqueduct)	151403	105858	109092	44480	110652	116664	90266	158441	262445	361355	283352	91071	1885079
					North San Joaquin Division								
South Bay Pumping Plant	4216	6831	6186	1200	2135	387	2809	9760	10976	12306	7134	6238	70178
Oak Flat Water District	12	0	0	0	395	499	751	1301	1308	1127	1131	268	6792
Tracy Golf & Country Club	--	--	--	--	--	--	--	--	--	--	--	5	5
Total	4228	6831	6186	1200	2530	886	3560	11061	12284	13433	8265	6511	76975
California Aqueduct at Check 12 (Inflow to San Luis Field Division)	147601	98614	102813	42874	108069	115162	86733	146992	249254	347305	274295	84114	1803826
					O'Neill Forebay <sup>b</sup>								
San Luis Water District	53	77	7	105	428	382	589	795	788	758	774	301	5057
					San Luis Division <sup>b</sup>								
San Luis Water District	76	18	336	1143	2141	1404	452	715	1467	2050	1314	332	11448
Panoche Water District	1547	5035	4009	2151	3277	4819	1624	2215	3287	7602	5085	941	41592
Westlands Water District	23113	22112	54758	65247	109819	111226	60466	87478	156260	181413	152345	38212	1062449 <sup>c</sup>
City of Huron	57	46	29	25	26	34	48	67	72	88	75	108	675
Avenal Community Service District	35	21	19	20	22	27	43	62	75	84	81	66	555
Total	24828	27232	59151	68586	115285	117510	62633	90537	161161	191237	158900	39659	1116719
					South San Joaquin Division								
Tulare Lake Basin Water Storage District	16545	16528	13485	3297	7824	2077	1927	7	2250	18809	26052	18254	127055
Empire West Side Irrigation District	17	188	698	0	40	579	425	0	171	1091	861	131	4201
Kings County	165	165	165	165	165	165	15	0	165	165	165	165	1665
Dudley Ridge Water District	2798	577	2323	683	2485	4977	4589	5980	10919	12105	12151	5116	64703
Hacienda Water District	2619	1520	3281	0	850	455	74	0	0	744	355	1000	10898
Kern County Water Agency	17504	17978	15822	10101	39593	45777	32499	50044	90947	108969	97281	32592	559107
Boswell Farms <sup>d</sup>	0	0	0	998	499	290	713	0	0	0	0	0	2500
Buena Vista Water Storage District <sup>d</sup>	0	0	0	0	25	494	776	1445	1032	1529	1757	782	7840
Total	39648	36956	35774	15244	51481	54814	41018	57476	105484	143412	138622	58040	777969
					Coastal Branch								
Devil's Den Water District	420	236	1378	1147	906	2250	1613	611	1369	2185	2279	243	14637
Kern County Water Agency	2430	734	1850	240	4729	9096	7464	13494	16834	22546	18810	4497	102724
Green Valley Water District	0	0	0	0	0	0	0	150	390	526	675	0	1741
Total	2850	970	3228	1387	5635	11346	9077	14255	18593	25257	21764	4740	119102

Data furnished by the Division of Operations and Maintenance.

<sup>a</sup> Entitlement and Surplus water have been combined in this table and do not include operational losses.

<sup>b</sup> Deliveries made by U. S. Bureau of Reclamation.

<sup>c</sup> Includes deliveries to City of Coalinga and San Luis Drain.

<sup>d</sup> Repayment of Preconsolidation water

TABLE B-8

## IMPORTS AND EXPORTS

October 1973 through September 1974

WATER USER	IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
						<u>Imports from Delta</u>							
California Aqueduct (a)	147175	99027	102906	43280	108122	115778	86706	147380	250161	347922	275087	84560	1808104
Delta Mendota Canal	205685	178062	95351	75824	192893	260573	152530	269287	261529	276533	277914	197568	2443749
Total Imports	352860	277089	198257	119104	301015	376351	239236	416667	511690	624455	553001	282128	4251853
						<u>Exports</u>							
City and County of San Francisco (b)	16778	2901	20287	11354	1670	14066	14456	14982	22519	27037	28242	26820	201112
A. D. Edmonston Pumping Plant (c)	52075	52274	68465	25315	43534	60606	41999	56167	64659	61603	61705	44412	632814
Total Exports	68853	55175	88752	36669	45204	74672	56455	71149	87178	88640	89947	71232	833926

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco. Data for California Aqueduct furnished by Department of Water Resources, Division of Operations and Maintenance. Acre-feet values are published as received and not rounded to the criteria normally used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct, Oak Flat Water District, and Tracy Golf and County Club.

(b) Exports from Tuolumne River.

(c) Deliveries to Southern California.

## DAILY MEAN GAGE HEIGHTS

Presented in Table B-9 are records of daily mean gage heights for key stations on major streams in the San Joaquin Valley for the 1973-74 water year.

At the bottom of the stage tables are shown the major river crests occurring for the 1973-74 water year. The table also shows the location of the station, maximum gage height of record, period of record, and datum of gage. The elevation of water surface at the gaging station is obtained by adding the gage height reading to the elevation of the gage datum presented in each table. Gage height for stage tables is computed from recorder charts and is reported to one-hundredth of a foot.

TABLE B-9

## DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

LAKE DRY

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
 NR — NO RECORD  
 NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.32	1.74	1.84	1.87	4.21	2.08	2.35	3.49	2.80	2.38	2.38	2.23	1
2	2.33	1.73	1.83	1.87	3.74	2.14	2.80	3.49	3.76	2.42	2.39	2.23	2
3	2.33	1.73	1.83	1.86	3.39	2.44	2.40	3.50	4.24	2.48	2.38	2.24	3
4	2.33	1.73	1.83	1.90	3.19	2.20	2.29	3.22	4.24	2.48	2.38	2.24	4
5	2.33	1.73	1.83	1.93	2.96	1.96	2.23	2.50	4.23	2.48	2.38	2.24	5
6	2.30	1.78	1.83	1.99	2.39	1.93	2.64	2.38	4.20	2.32	2.38	2.19	6
7	2.27	1.93	1.84	2.27	1.88	1.92	3.14	2.36	4.21	2.43	2.37	2.14	7
8	2.28	1.94	1.85	2.18	1.89	2.06	3.13	2.36	4.21	2.43	2.37	2.14	8
9	2.27	2.03	1.85	2.10	1.89	2.05	3.14	2.36	4.21	2.43	2.37	2.13	9
10	2.27	2.11	1.85	2.23	1.98	2.04	3.13	2.36	3.91	2.43	2.36	2.13	10
11	2.23	2.12	1.84	2.17	2.08	2.02	3.12	2.36	3.09	2.44	2.36	2.13	11
12	2.18	2.12	1.84	2.18	2.09	1.99	3.10	2.36	2.40	2.46	2.36	2.13	12
13	2.18	2.12	1.84	2.15	2.15	1.97	3.44	2.34	2.26	2.45	2.35	2.13	13
14	2.18	2.12	1.84	2.14	2.13	1.97	3.96	2.32	2.11	2.44	2.34	2.13	14
15	2.19	2.12	1.84	2.13	2.12	1.96	3.95	2.34	2.14	2.43	2.34	2.13	15
16	2.19	2.07	1.84	2.22	2.12	1.97	3.69	2.39	2.15	2.44	2.34	2.13	16
17	2.19	1.98	1.84	2.33	2.09	1.96	3.49	2.39	2.16	2.43	2.33	2.13	17
18	2.15	1.98	1.84	2.67	2.04	1.96	3.52	2.39	2.15	2.41	2.34	2.13	18
19	2.10	1.97	1.85	3.35	2.05	1.96	3.52	2.39	2.17	2.41	2.34	2.13	19
20	2.08	1.97	1.85	3.70	2.06	1.95	3.52	2.39	2.26	2.41	2.32	2.13	20
21	2.05	1.92	1.85 E	4.07	2.05	1.94	3.51	2.39	2.37	2.41	2.32	2.13	21
22	2.02	1.79	1.85 E	4.48	2.04	1.92	3.51	2.40	2.37	2.41	2.32	2.13	22
23	1.97	1.78	1.85 E	4.64	2.03	1.93	3.51	2.40	2.43	2.40	2.32	2.13	23
24	1.96	1.88	1.85 E	4.63	2.05	1.92	3.51	2.40	2.30	2.40	2.31	2.12	24
25	1.96	1.90	1.85 E	4.62	2.06	1.91	3.51	2.40	2.18	2.39	2.31	2.16	25
26	1.95	1.82	1.89 E	4.62	2.06	1.92	3.51	2.40	2.21	2.39	2.29	2.20	26
27	1.92	1.80	1.92	4.61	2.06	1.93	3.51	2.47	2.20	2.39	2.25	2.20	27
28	1.87	1.80	1.88	4.56	2.06	2.07	3.50	2.49	2.29	2.39	2.25	2.21	28
29	1.87	1.81	1.86	4.55		2.03	3.49	2.50	2.38	2.38	2.24	2.21	29
30	1.86	1.83	1.85	4.55		2.03	3.49	2.51	2.39	2.38	2.23	2.21	30
31	1.85		1.84	4.37		2.02		2.52		2.38	2.24		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-22-74	1800	4.66	4-13-74	1700	3.96						
1-24-74	1700	4.66	4-14-74	2400	3.96						
4-2-74	0130	3.54	6-2-74	2400	4.25						

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,000	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS
			12,400 <sup>a</sup>	11.69	6-6-69						
Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.											
• Maximum flows since construction of Friant Dam in 1944.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	61.50	61.55	61.44	65.42	67.21	61.33	64.45	62.38	61.12	61.09	60.99	61.53	1
2	61.59	61.49	61.66	65.27	66.78	61.30	65.42	62.20	61.08	61.10	60.92	61.66	2
3	61.83	61.41	61.96	65.22	66.48	61.71	67.78	61.92	61.12	61.00	61.00	61.82	3
4	61.78	61.37	62.89	64.83	65.38	65.08	70.62	61.73	61.22	60.88	61.07	61.82	4
5	61.60	61.28	62.45	64.99	64.57	68.43	69.96	61.81	61.41	60.82	61.01	61.78	5
6	61.72	61.10	62.20	65.48	64.10	68.32	68.80	62.08	61.55	60.79	60.99	61.87	6
7	62.22	61.43	61.77	66.00	63.78	67.00	67.88	62.21	61.48	60.81	60.92	61.87	7
8	63.81	62.95	61.55	68.13	63.37	65.88	67.06	62.12	61.47	60.84	60.90	61.83	8
9	64.92	63.20	61.48	68.80	63.29	66.02	66.16	61.76	61.31	60.81	60.92	61.92	9
10	64.77	62.94	61.41	68.56	63.25	66.26	65.87	61.50	61.21	60.84	60.90	61.81	10
11	64.25	62.62	61.43	67.60	63.18	66.16	65.44	61.40	61.20	61.36	60.92	61.74	11
12	63.60	62.38	61.45	66.71	63.19	65.18	65.52	61.32	61.23	61.73	60.99	61.72	12
13	63.57	62.24	61.61	66.17	63.01	64.24	65.32	61.26	61.21	62.21	61.05	61.58	13
14	63.54	61.66	62.63	65.84	62.77	63.14	64.37	61.28	61.18	62.25	61.07	61.50	14
15	63.28	61.49	62.89	65.54	62.65	62.68	63.91	61.21	61.16	62.08	61.12	61.49	15
16	63.00	61.48	62.62	65.36	62.59	62.39	64.26	61.15	61.15	61.63	61.21	61.67	16
17	62.85	61.46	62.39	64.95	62.45	62.22	64.22	61.28	61.08	61.42	61.36	61.87	17
18	62.84	61.64	62.35	64.49	62.35	62.11	63.91	61.29	61.09	61.40	61.34	61.88	18
19	62.81	61.83	61.86	65.43	62.23	62.13	63.27	61.33	61.12	61.29	61.29	61.86	19
20	62.63	61.79	61.59	67.16	62.13	61.92	62.78	61.35	61.14	61.17	61.34	61.78	20
21	62.45	61.72	61.70	67.44	62.10	61.76	62.60	61.44	61.13	61.03	61.44	61.82	21
22	61.90	61.70	63.36	67.59	61.89	61.80	62.35	61.35	61.06	60.87	61.55	61.78	22
23	61.62	61.63	64.27	67.94	61.78	61.74	62.30	61.28	61.05	60.91	61.62	61.71	23
24	61.50	61.46	63.92	68.05	61.67	61.58	62.25	61.58	61.08	61.03	61.43	61.70	24
25	61.82	61.50	63.09	68.59	61.61	61.54	62.09	61.80	61.14	61.06	61.45	61.56	25
26	62.24	61.50	62.76	66.95	61.54	61.56	62.01	61.77	61.11	61.01	61.73	61.56	26
27	62.05	61.55	63.02	67.35	61.51	61.63	61.87	61.80	61.10	60.93	62.01	61.67	27
28	61.91	61.52	65.60	67.23	61.38	62.45	61.88	61.68	61.10	60.82	61.72	62.13	28
29	61.81	61.46	67.83	67.11		63.68	62.12	61.45	61.02	60.80	61.57	62.32	29
30	61.72	61.45	67.53	67.04		63.51	62.32	61.28	61.03	60.92	61.69	62.36	30
31	61.60		66.44	67.18		64.00		61.15		60.99	61.55		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E — ESTIMATED	4- 4-74	1345	70.80									
NR — NO RECORD	1-25-74	0245	69.03									
NE — NO FLOW	3- 5-74	2100	68.76									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.90	55.50	55.72	59.00	60.57	56.30	58.18	56.50	55.73	55.35	55.34	56.03	1
2	55.93	55.43	55.78	58.48	60.18	56.26	58.68	56.40	55.69	55.43	55.29	56.05	2
3	55.66	55.37	55.86	58.54	60.02	56.24	59.89	56.23	55.75	55.36	55.23	56.26	3
4	55.56	55.24	56.03	58.25	59.21	57.38	62.60	56.04	55.76	55.26	55.37	56.23	4
5	55.48	55.05	56.17	58.08	58.41	60.52	63.04	56.01	55.76	55.19	55.36	56.17	5
6	55.49	54.98	55.97	58.43	57.89	61.58	62.45	56.17	55.62	55.25	55.39	56.05	6
7	55.65	55.06	55.77	58.76	57.60	60.93	61.64	56.39	55.55	55.37	55.39	56.00	7
8	56.23	55.67	55.59	60.27	57.29	59.76	60.95	56.16	55.54	55.47	55.32	55.95	8
9	56.63	56.16	55.48	61.76	57.06	59.47	60.06	55.92	55.63	55.57	55.23	55.86	9
10	56.72	56.16	55.38	61.92	56.97	59.85	59.58	55.74	55.64	55.69	55.23	55.81	10
11	56.76	56.03	55.37	61.46	56.92	59.91	59.15	55.67	55.79	55.85	55.28	55.61	11
12	56.42	55.93	55.43	60.57	56.96	59.32	58.96	55.64	55.62	56.08	55.33	55.42	12
13	56.35	55.87	55.53	59.84	56.90	58.47	58.94	55.63	55.45	56.28	55.30	55.36	13
14	56.32	55.74	55.76	59.41	56.90	57.74	58.25	55.59	55.27	56.46	55.29	55.38	14
15	56.28	55.63	56.23	59.06	56.83	57.31	57.68	55.53	55.19	56.34	55.35	55.38	15
16	56.15	55.67	56.18	58.89	56.83	57.09	57.64	55.43	55.33	56.20	55.34	55.55	16
17	55.96	55.71	56.01	58.63	56.85	56.91	57.64	55.29	55.40	55.74	55.37	55.82	17
18	55.78	55.76	55.97	58.26	56.82	56.82	57.38	55.47	55.51	55.64	55.50	55.90	18
19	55.78	55.82	55.86	58.29	56.66	56.79	57.06	55.64	55.66	55.57	55.63	55.79	19
20	55.72	55.90	55.64	59.87	56.68	56.72	56.76	55.71	55.68	55.55	55.61	55.84	20
21	55.71	55.94	55.67	60.64	56.67	56.59	56.74	55.84	55.70	55.53	55.75	55.85	21
22	55.68	55.81	56.16	60.90	56.62	56.53	56.76	56.02	55.70	55.48	55.88	55.88	22
23	55.60	55.71	57.07	61.17	56.42	56.46	56.67	55.93	55.63	55.32	55.98	55.89	23
24	55.51	55.64	57.13	61.34	56.32	56.33	56.59	55.87	55.59	55.46	55.89	55.81	24
25	55.51	55.58	56.75	61.83	56.32	56.36	56.40	56.00	55.65	55.45	55.79	55.61	25
26	55.57	55.62	56.43	60.98	56.34	56.44	56.41	56.13	55.72	55.24	55.80	55.58	26
27	55.64	55.60	56.47	60.72	56.44	56.54	56.42	56.23	55.59	55.24	56.00	55.58	27
28	55.64	55.65	57.54	60.68	56.38	56.75	56.35	56.26	55.47	55.17	55.94	55.81	28
29	55.60	55.63	59.86	60.52		57.43	56.35	56.14	55.42	55.14	55.77	56.14	29
30	55.55	55.66	60.77	60.41		57.90	56.48	55.96	55.32	55.16	55.90	56.31	30
31	55.55		60.04	60.42		58.00		55.78		55.21	56.05		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
4- 5-74	0230	63.14									
1-25-74	1300	61.98									
3- 6-74	0830	61.66									

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.29	5.46	8.10	9.67	9.27	7.29	7.05	8.42	8.24	6.46	6.27	6.32	1
2	6.28	5.43	8.06	9.45	9.26	7.31	7.03	8.31	8.21	6.47	6.20	6.31	2
3	6.27	5.42	8.03	9.29	9.27	7.39	6.93	8.07	8.18	6.42	6.24	6.29	3
4	6.28	5.42	8.04	9.34	8.78	8.21	6.84	7.91	8.18	6.44	6.35	6.27	4
5	6.29	5.44	8.06	9.23	8.26	9.28	6.84	7.91	8.24	6.46	6.32	6.35	5
6	6.22	5.53	8.04	9.45	8.28	9.26	6.83	7.92	8.32	6.48	6.35	6.52	6
7	6.87	6.57	8.03	9.49	8.27	8.87	6.85	8.08	9.36	6.51	6.35	6.51	7
8	7.39	6.46	8.03	9.35	8.12	8.41	6.88	8.14	11.42	6.55	6.31	6.49	8
9	7.44	6.88	8.01	9.31	7.52	7.37	6.93	8.12	11.43	6.53	6.29	6.44	9
10	7.47	7.48	7.88	9.31	7.43	7.31	6.83	8.10	10.32	6.52	6.27	6.35	10
11	7.08	7.46	7.16	9.31	7.80	7.94	6.95	8.10	8.81	6.53	6.27	6.23	11
12	6.58	7.44	6.93	9.31	8.04	7.77	6.92	8.12	8.76	6.51	6.30	6.25	12
13	6.47	7.42	7.31	9.29	7.82	7.00	6.91	8.07	9.01	6.48	6.33	6.26	13
14	6.48	7.42	7.89	9.29	7.82	6.95	6.86	8.07	9.99	6.48	6.28	6.22	14
15	6.54	7.43	7.91	9.29	7.76	6.96	6.69	8.05	9.53	6.41	6.34	6.25	15
16	6.11	7.74	7.91	9.30	7.44	6.80	6.96	8.07	8.67	6.44	6.26	6.23	16
17	6.24	8.55	7.92	9.29	7.40	6.82	6.89	8.11	8.49	6.55	6.40	6.23	17
18	6.59	9.07	7.92	9.30	7.56	6.89	6.87	8.09	7.73	6.49	6.39	6.26	18
19	6.60	10.10	7.92	9.29	7.71	6.98	6.92	8.05	6.67	6.47	6.42	6.25	19
20	6.62	9.86	7.92	9.28	7.48	6.94	6.96	8.07	6.59	6.55	6.43	6.28	20
21	6.63	9.11	7.95	9.28	7.46	6.89	6.97	8.12	6.51	6.52	6.35	6.29	21
22	6.65	8.72	7.94	9.28	7.45	6.83	6.97	7.76	6.44	6.50	6.33	6.32	22
23	6.67	8.63	7.93	9.28	7.42	6.81	6.95	7.27	6.54	6.45	6.35	6.33	23
24	6.54	8.67	7.91	9.28	7.37	6.76	6.98	7.19	6.52	6.40	6.41	6.33	24
25	5.97	8.69	7.92	9.28	7.36	6.67	6.97	7.11	6.51	6.37	6.38	6.19	25
26	6.63	8.67	7.94	9.28	7.37	6.70	8.02	7.14	6.42	6.44	6.41	6.19	26
27	6.64	8.38	9.05	9.27	7.33	6.78	8.80	7.13	6.39	6.43	6.42	6.26	27
28	6.21	8.05	9.71	9.28	7.23	6.90	8.78	7.12	6.45	6.42	6.38	6.34	28
29	5.55	8.02	9.65	9.27		6.93	8.70	7.75	6.51	6.39	6.36	6.38	29
30	5.49	8.04	9.64	9.28		6.93	8.53	8.27	6.52	6.38	6.32	6.40	30
31	5.47		9.61	9.27		6.87		8.22		6.36	6.30		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
NR — NO RECORD  
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	0330	10.15									
6-10-74	1515	11.53									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.R.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	805155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.23	11.39	12.93	15.16	14.47	11.80	11.52	13.13	12.58	10.92	10.84	10.96	1
2	11.15	11.38	12.91	15.26	14.46	11.84	12.07	13.09	12.67	10.85	10.79	10.94	2
3	11.10	11.36	12.83	14.70	14.45	12.06	11.87	12.84	12.60	10.82	10.77	10.88	3
4	11.13	11.31	12.83	14.65	14.44	12.43	11.58	12.61	12.57	10.81	10.82	10.85	4
5	11.17	11.31	12.83	14.70	13.36	13.81	11.49	12.47	12.55	10.81	10.89	10.82	5
6	11.25	11.31	12.84	14.87	13.10	14.27	11.44	12.42	12.57	10.82	10.84	10.85	6
7	11.37	11.58	12.81	15.71	13.07	14.25	11.42	12.42	12.74	10.89	10.77	10.97	7
8	12.12	12.16	12.82	15.42	12.98	13.85	11.45	12.52	15.81	10.96	10.79	11.01	8
9	12.19	12.15	12.81	14.78	12.61	13.08	11.49	12.51	17.58	11.01	10.82	10.97	9
10	12.28	12.17	12.82	14.66	12.13	12.10	11.47	12.50	17.66	11.12	10.81	10.98	10
11	12.34	12.21	12.44	14.63	12.04	11.98	11.42	12.47	14.52	11.05	10.85	10.98	11
12	11.85	12.23	11.80	14.64	12.70	12.90	11.53	12.45	13.47	11.08	10.90	10.90	12
13	11.53	12.18	11.63	14.65	12.54	12.09	11.52	12.50	13.27	11.01	10.83	10.92	13
14	11.39	12.18	12.18	14.60	12.40	11.64	11.50	12.43	14.42	10.97	10.83	10.95	14
15	11.34	12.16	12.59	14.58	12.39	11.56	11.45	12.40	15.23	10.95	10.84	10.93	15
16	11.35	12.18	12.62	14.56	12.20	11.50	11.39	12.38	13.88	10.90	10.91	10.92	16
17	11.38	12.82	12.63	14.56	11.99	11.39	11.51	12.38	13.22	10.87	10.91	10.86	17
18	11.93	13.65	12.64	14.56	11.92	11.40	11.50	12.45	12.80	10.94	10.96	10.88	18
19	12.27	14.94	12.63	14.65	12.28	11.48	11.43	12.50	11.83	10.96	10.99	10.84	19
20	12.31	15.78	12.62	14.61	12.15	11.50	11.50	12.48	11.30	10.99	10.99	10.88	20
21	12.34	15.12	12.66	14.53	12.00	11.50	11.55	12.50	11.16	10.99	11.01	10.95	21
22	12.37	14.07	12.73	14.53	12.00	11.42	11.56	12.53	11.04	10.98	10.92	10.98	22
23	12.43	13.73	12.67	14.51	11.96	11.34	11.52	11.98	11.06	10.97	10.86	10.99	23
24	12.45	13.67	12.67	14.50	11.92	11.32	11.56	11.71	11.06	10.91	10.88	10.95	24
25	12.21	13.67	12.65	14.50	11.89	11.29	11.59	11.66	10.99	10.87	10.90	10.95	25
26	11.90	13.68	12.67	14.50	11.88	11.26	11.65	11.65	10.95	10.80	10.91	10.89	26
27	12.35	13.66	13.21	14.51	11.88	11.19	13.24	11.67	10.90	10.84	10.91	10.88	27
28	12.42	13.13	15.06	14.49	11.80	11.36	13.63	11.58	10.87	10.89	10.92	10.91	28
29	11.88	12.89	15.22	14.49		11.47	13.51	11.55	10.86	10.95	10.90	11.01	29
30	11.55	12.85	15.12	14.47		11.48	13.46	12.33	10.87	10.87	10.92	11.03	30
31	11.45		15.05	14.47		11.47		12.55		10.88	10.99		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-30-74	2300	15.48									
6-10-74	1800	17.80									

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48.86	49.19	50.49	54.07	54.34	49.95	50.92	51.15	50.13	48.88	48.66	49.11	1
2	48.99	49.10	50.57	53.75	54.20	49.93	51.17	50.89	50.17	48.90	48.62	49.24	2
3	48.84	49.05	50.60	53.72	54.04	49.99	51.74	50.78	50.29	48.82	48.59	49.22	3
4	48.71	48.98	50.68	53.34	53.74	50.44	53.38	50.68	50.27	48.72	48.62	49.20	4
5	48.69	48.88	50.72	53.12	53.23	51.92	54.83	50.56	50.15	48.66	48.71	49.16	5
6	48.69	48.81	50.58	53.21	52.32	53.93	54.87	50.50	50.07	48.69	48.72	49.06	6
7	49.01	48.82	50.48	53.60	51.87	54.36	54.11	50.58	50.09	48.80	48.70	48.99	7
8	49.44	49.04	50.36	54.58	51.65	53.68	53.23	50.47	50.32	48.88	48.60	49.05	8
9	50.06	49.65	50.29	55.46	51.40	53.11	52.44	50.40	52.33	49.12	48.60	49.07	9
10	50.35	49.81	20.21	55.66	51.07	52.99	52.01	50.23	53.77	49.17	48.54	49.06	10
11	50.26	49.86	50.17	55.50	50.79	52.60	51.73	50.21	53.93	49.39	48.59	49.06	11
12	20.07	49.90	49.97	54.93	50.71	52.31	51.48	50.21	52.00	49.54	48.68	48.94	12
13	49.88	49.90	49.71	54.36	50.93	52.09	51.43	50.20	50.99	49.55	48.70	48.76	13
14	49.72	49.85	49.65	53.99	50.83	51.23	51.07	50.20	50.70	49.55	48.65	48.75	14
15	49.64	49.77	50.00	53.72	50.72	50.70	50.68	50.18	51.46	49.40	48.67	48.79	15
16	49.50	49.76	50.17	53.56	50.72	50.42	50.43	50.07	51.98	49.06	48.71	48.91	16
17	49.39	49.82	50.10	53.43	50.62	50.28	50.37	49.85	51.32	48.94	48.64	48.98	17
18	49.29	50.15	50.09	53.25	50.43	50.29	50.25	49.83	50.82	48.86	48.79	49.13	18
19	49.52	50.68	50.08	53.16	50.38	50.18	50.12	49.98	50.56	48.74	48.97	49.09	19
20	49.70	51.78	50.00	53.77	50.51	50.15	49.91	50.15	49.95	48.70	48.92	49.10	20
21	49.74	52.46	50.02	54.43	50.42	50.12	49.90	50.26	49.61	48.73	48.94	49.13	21
22	49.77	52.10	50.17	54.68	50.29	50.14	50.04	50.40	49.42	48.71	49.03	49.18	22
23	49.01	51.39	50.64	54.88	50.20	49.98	50.03	50.33	49.28	48.77	49.08	49.30	23
24	49.75	51.01	50.78	55.03	50.15	49.87	50.00	49.98	49.28	48.76	49.02	49.27	24
25	49.77	50.91	50.66	55.22	50.12	49.86	49.91	49.88	49.20	48.71	49.02	49.10	25
26	49.77	50.96	50.48	55.19	50.08	49.89	49.89	49.76	49.14	48.58	49.07	49.06	26
27	49.61	50.94	50.57	54.65	50.10	49.90	49.95	49.82	49.04	48.60	49.07	49.06	27
28	49.71	50.96	51.77	54.57	50.05	50.01	50.70	49.74	48.91	48.63	49.03	49.05	28
29	49.75	50.65	54.06	54.45		50.40	51.11	49.62	48.85	48.62	48.99	49.10	29
30	49.56	50.48	54.81	54.34		50.70	51.18	49.57	48.85	47.59	49.04	49.32	30
31	49.31		54.62	54.27		50.73		49.98		48.59	49.18		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
NR — NO RECORD  
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-10-74	1630	55.69									
3-7-74	0300	54.48									
4-5-74	2200	55.02									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	34700a	65.90	2-26-69	APR 12-DATE		1912		47.24	USCGS
									1959	47.31	USCGS
										0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,520 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (34,700 cfs) includes flow in Merced River Slough.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.66	33.56	34.55	38.19	38.44	33.98	35.25	34.97	34.09	33.16	33.00	33.52	1
2	33.68	33.48	34.55	37.78	38.43	34.05	35.48	34.82	34.24	33.11	33.01	33.47	2
3	33.73	33.41	34.59	37.67	38.26	34.54	35.76	34.67	34.36	32.99	32.91	33.52	3
4	33.67	33.34	34.60	37.54	38.10	34.79	36.61	34.65	34.34	33.02	32.93	33.41	4
5	33.60	33.29	34.66	37.28	37.72	35.34	38.17	34.66	34.20	33.01	32.94	33.33	5
6	33.54	33.24	34.61	37.28	37.04	36.86	38.85	34.64	34.06	33.01	32.91	33.42	6
7	33.78	33.21	34.53	37.57	36.32	38.13	38.72	34.70	34.12	33.02	32.92	33.35	7
8	34.36	33.26	34.45	38.24	36.00	38.23	37.99	34.66	34.25	33.23	32.88	33.29	8
9	34.53	33.57	34.37	39.07	35.72	37.56	37.09	34.57	34.98	33.43	32.95	33.31	9
10	34.80	33.84	34.31	39.50	35.43	37.52	36.50	34.41	36.66	33.52	32.98	33.36	10
11	34.86	33.93	34.26	39.62	35.09	37.14	36.28	34.37	37.44	33.48	33.01	33.42	11
12	34.72	33.97	34.20	39.41	34.91	36.73	35.91	34.50	36.90	33.60	33.02	33.41	12
13	34.45	33.99	33.99	38.87	34.96	36.46	35.73	34.53	35.47	33.79	32.93	33.25	13
14	34.29	33.98	33.84	38.39	35.00	35.97	35.43	34.44	34.96	33.82	33.00	33.24	14
15	34.22	33.94	33.93	38.06	34.85	35.19	35.07	34.47	35.11	33.66	33.00	33.28	15
16	34.04	33.88	34.17	37.81	34.79	34.81	34.66	34.32	35.96	33.48	33.03	33.35	16
17	33.81	33.92	34.19	37.67	34.76	34.63	34.45	34.17	35.83	33.30	33.02	33.40	17
18	33.68	34.00	34.15	37.55	34.59	34.55	34.35	34.04	35.14	33.12	33.11	33.51	18
19	33.70	34.35	34.14	37.40	34.48	34.43	34.31	34.26	34.95	33.05	33.25	33.58	19
20	33.85	34.85	34.11	37.53	34.36	34.32	34.16	34.46	34.59	32.98	33.27	33.61	20
21	33.90	35.75	34.09	38.14	34.38	34.22	34.17	34.35	34.15	33.01	33.15	33.59	21
22	33.94	36.01	34.15	38.56	34.28	34.19	34.24	34.46	33.81	33.08	33.16	33.61	22
23	33.96	35.58	34.36	38.81	34.13	34.17	34.15	34.39	33.69	33.00	33.19	33.78	23
24	33.96	35.09	34.62	39.00	34.06	34.14	34.12	34.27	33.69	32.89	33.20	33.67	24
25	33.94	34.87	34.64	39.11	34.07	34.10	34.11	34.04	33.49	32.92	33.27	33.57	25
26	33.97	34.85	34.52	39.32	34.02	34.09	33.99	34.02	33.47	32.89	33.36	33.59	26
27	33.88	34.88	34.61	39.02	34.01	34.12	34.02	33.93	33.39	32.82	33.24	33.63	27
28	33.84	34.89	35.18	38.75	33.98	34.47	34.38	33.85	33.23	32.86	33.29	33.56	28
29	33.90	34.81	36.72	38.66		34.74	34.84	33.80	33.19	33.02	33.30	33.57	29
30	33.89	34.57	37.98	38.54		35.02	34.97	33.76	33.22	32.94	33.29	33.77	30
31	33.68		38.38	38.45		35.01		33.85		32.92	33.38		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-11-74	0945	39.64									
4- 6-74	1330	38.93									
2- 2-74	0215	38.47									

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38			1938	1959	0.00	USED
				50.47a	6-13-38			1959		0.00	USCGS
			5460b	42.65	3- 9-70	OCT 69-DATE		1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.

b Maximum discharge since station was rated in October 1969

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	70.11	72.85	71.16	71.12	72.64	71.27	70.59	69.98	69.73	69.69	69.68	71.02	1
2	71.40	72.43	71.05	71.38	72.11	71.48	70.47	69.74	69.72	69.90	70.05	71.02	2
3	72.11	72.28	71.03	72.99	71.39	71.09	70.15	69.68	69.68	69.68	70.38	71.04	3
4	73.88	72.04	71.10	73.42	71.25	71.03	70.01	69.68	70.16	69.96	69.74	71.28	4
5	71.53	71.93	71.09	73.21	72.42	71.42	70.00	69.68	70.30	69.67	69.66	71.28	5
6	71.36	71.81	71.09	72.61	72.48	71.86	69.99	69.68	70.19	69.67	70.05	71.24	6
7	71.56	71.24	71.18	72.35	72.35	72.11	69.98	69.66	70.25	69.64	70.40	71.29	7
8	70.84	71.16	71.12	73.35	72.24	72.26	69.97	70.08	69.75	69.60	70.16	71.12	8
9	70.83	71.14	71.02	73.22	71.90	71.66	69.99	70.17	69.69	69.95	69.75	71.03	9
10	71.33	71.14	71.01	73.25	71.33	71.09	69.98	69.77	69.67	69.77	69.68	71.54	10
11	71.33	71.09	71.10	73.06	71.15	71.13	69.97	69.71	70.31	69.61	69.64	71.73	11
12	71.33	71.10	71.37	72.46	72.20	71.45	69.98	69.70	70.08	69.59	69.63	71.45	12
13	71.32	71.18	71.35	71.52	72.36	71.42	69.97	69.69	69.91	69.59	69.62	71.32	13
14	71.33	71.14	71.16	71.45	72.34	71.45	69.97	69.67	69.71	69.59	70.91	71.11	14
15	70.95	71.13	71.09	72.66	72.26	71.06	69.97	69.65	69.64	69.59	71.13	71.02	15
16	72.15	71.13	70.91	72.64	71.84	71.02	69.97	69.64	69.64	69.57	71.16	71.08	16
17	72.90	71.15	70.76	72.62	71.28	70.91	69.96	69.65	69.65	69.58	71.13	72.58	17
18	72.94	71.10	70.86	72.51	70.63	70.77	70.04	69.67	69.63	69.59	71.12	73.04	18
19	72.83	71.08	70.86	72.15	70.82	70.92	70.03	69.68	69.63	70.08	70.90	73.16	19
20	72.33	71.13	71.01	71.43	71.12	70.88	69.95	69.68	69.62	70.35	70.86	73.12	20
21	71.76	71.13	71.58	71.46	71.28	70.61	69.96	69.65	69.61	69.87	70.98	72.99	21
22	70.90	71.12	71.45	72.68	71.40	70.58	69.96	69.65	69.63	69.68	71.07	72.67	22
23	71.25	71.05	70.99	72.62	71.15	70.58	69.96	69.65	69.64	70.25	71.15	72.72	23
24	72.55	71.13	70.80	72.67	70.88	70.57	69.96	69.88	69.61	70.44	71.18	73.04	24
25	72.68	71.05	70.84	72.65	70.75	70.69	69.97	69.76	69.56	70.62	71.06	73.10	25
26	73.07	71.06	70.84	72.31	71.18	70.74	69.96	69.73	69.59	70.67	71.11	72.93	26
27	72.76	71.11	71.69	71.53	71.09	70.71	69.97	69.70	69.59	70.14	71.17	72.84	27
28	72.23	71.13	71.62	71.48	71.03	70.85	69.98	69.68	69.58	69.73	71.08	72.73	28
29	72.08	71.11	71.14	72.68		70.56	69.97	69.66	70.06	69.65	71.05	72.50	29
30	73.09	71.11	70.89	72.68		70.55	69.97	69.66	70.14	69.61	71.05	72.68	30
31	73.07		70.85	72.73		70.54		69.64		69.67	71.03		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1- 4-74	0330	74.37									
10- 4-74	0500	74.25									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Drainage area is 1,655 square miles. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.13	67.67	67.80	68.92	67.83	67.83	68.51	68.29	68.50	68.26	68.22	68.25	1
2	68.15	67.65	67.85	70.74	67.82	71.41	73.36	68.29	68.48	68.33	68.26	68.28	2
3	68.18	67.64	67.85	69.17	67.79	74.07	72.68	68.38	68.48	68.34	68.20	68.46	3
4	68.22	67.64	67.87	68.64	67.77	74.44	69.48	68.47	68.49	68.34	68.38	68.39	4
5	68.25	67.65	68.61	68.48	67.76	70.53	68.85	68.37	68.42	68.32	68.35	68.30	5
6	68.21	67.71	68.95	68.97	67.74	68.98	68.57	68.51	68.32	68.27	68.28	68.59	6
7	68.37	67.69	68.90	73.01	67.73	68.65	68.47	68.43	68.32	68.25	68.20	69.15	7
8	69.98	67.67	68.88	71.87	67.72	68.83	68.37	68.28	68.30	68.25	68.23	69.18	8
9	69.53	67.66	68.85	69.90	67.72	71.20	68.31	68.33	68.40	68.45	68.23	69.13	9
10	68.50	67.65	68.85	68.94	67.71	69.17	68.40	68.39	68.32	68.93	68.10	69.16	10
11	68.08	67.64	68.85	68.59	67.67	68.74	68.28	68.36	68.28	68.78	68.11	69.38	11
12	67.89	67.65	69.04	68.59	67.66	68.56	68.31	68.37	68.36	68.62	68.09	69.47	12
13	67.82	67.66	69.08	69.01	67.65	68.45	68.26	68.49	68.41	68.65	68.15	69.38	13
14	67.78	67.68	69.06	68.75	67.65	68.37	68.19	68.46	68.39	68.57	68.26	69.61	14
15	67.78	67.70	69.05	68.43	67.65	68.31	68.19	68.43	68.35	68.65	68.36	69.55	15
16	67.77	67.83	69.04	68.30	67.65	68.25	68.18	68.41	68.32	68.63	68.31	69.50	16
17	67.74	67.77	69.04	68.23	67.66	68.21	68.27	68.50	68.31	68.50	68.19	69.42	17
18	67.72	67.74	69.16	68.19	67.67	68.19	68.25	68.34	68.37	68.38	68.27	69.48	18
19	67.73	67.72	69.15	68.55	67.68	68.15	68.38	68.39	68.47	68.36	68.24	69.45	19
20	67.73	67.70	69.09	68.86	67.65	68.12	68.36	68.60	68.56	68.35	68.27	69.30	20
21	67.70	67.68	68.92	68.47	67.65	68.08	68.20	68.67	68.47	68.22	68.17	69.40	21
22	67.69	67.66	68.13	68.29	67.67	68.04	68.17	68.50	68.56	68.23	68.18	69.37	22
23	67.69	67.65	69.08	68.19	67.74	68.02	68.25	68.48	68.57	68.31	68.24	69.26	23
24	67.69	67.65	68.69	68.14	67.90	68.00	68.45	68.45	68.49	68.25	68.25	69.02	24
25	67.76	67.64	68.19	68.08	67.97	68.00	68.56	68.41	68.37	68.29	68.32	68.78	25
26	67.79	67.66	67.99	68.02	67.96	68.09	68.54	68.41	68.42	68.33	68.37	68.45	26
27	67.74	67.68	69.72	67.98	67.95	68.03	68.45	68.43	68.31	68.30	68.30	68.51	27
28	67.72	67.63	78.67	67.94	67.87	68.17	68.40	68.40	68.28	68.22	68.31	68.45	28
29	67.75	67.61	74.25	67.92		68.20	68.37	68.60	68.40	68.26	68.35	68.46	29
30	67.71	67.74	70.13	67.88		68.35	68.33	68.51	68.26	68.28	68.27	68.46	30
31	67.69		69.48	67.87		68.35		68.43		68.27	68.24		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-28-73	1730	79.72									
3- 2-74	2245	77.32									
4- 2-74	1845	78.25									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS
Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.11	42.52	41.54	41.65	42.61	41.69 E	41.85	41.29	41.17	41.35	41.17	41.70	1
2	41.31	42.19	41.51	41.78	42.39	41.91 E	42.33	41.25	41.23	41.22	41.21	41.69	2
3	41.53	42.09	41.49	42.38	42.04	43.97 E	42.58	41.20	41.20	41.29	41.42	41.70	3
4	42.39	41.97	41.50	42.40	41.57	42.55 E	41.80	41.19	41.25	41.22	41.39	41.79	4
5	42.49	41.89	41.54	43.29	42.16	42.45 E	41.67	41.21	41.44	41.37	41.23	41.81	5
6	41.70	41.92	41.57	42.98	42.40	41.62	41.57	40.40	41.43	41.22	41.24	41.81	6
7	41.76	41.72	41.63	42.55	42.37	42.42	41.50	41.22	41.43	41.25	41.46	41.93	7
8	41.83	41.57	41.64	43.98	42.29	42.65	41.40	41.22	41.37	41.22	41.47	41.90	8
9	41.64	41.53	41.59	43.65	42.23	42.81	41.36	41.38	41.24	41.38	41.34	41.84	9
10	41.64	41.52	41.58	43.43	41.97	42.13	41.36	41.32	41.23	41.49	41.22	41.93	10
11	41.63	41.49	41.60	43.34	41.57	41.98	41.34	41.21	41.30	41.33	41.23	42.10	11
12	41.59	41.50	41.67	42.94	42.11	42.15	41.35	41.18	41.42	41.26	41.18	42.06	12
13	41.61	41.52	41.76	42.23	42.33	42.14	41.35	41.23	41.35	41.28	41.11	41.99	13
14	41.63	41.51	41.71	41.75	42.40	42.23	41.32	41.18	41.30	41.23	41.23	41.96	14
15	41.52	41.51	41.66	42.37	42.36	42.03	41.31	41.14	41.24	41.25	41.64	41.91	15
16	41.63	41.52	41.61	42.54	42.29	41.90	41.29	41.15	41.23	41.25	41.69	41.88	16
17	41.49	41.53	41.54	42.50	41.97	41.86	41.31	41.15	40.46	41.24	41.71	42.15	17
18	42.36	41.51	41.56	42.46	41.58	41.70	41.33	41.12	41.19	41.18	41.73	42.70	18
19	42.35	41.49	41.57	42.41	41.47	41.72	41.35	41.19	41.26	41.24	41.70	43.12	19
20	42.25	41.50	41.56	42.09	41.65	41.74	41.33	41.21	41.25	41.45	41.62	43.22	20
21	41.91	41.51	41.77	41.67	41.71	41.65	41.31	41.19	41.27	41.38	41.61	43.23	21
22	41.61	41.50	41.79	42.37	41.85	41.59	41.28	41.16	41.19	41.28	41.67	43.06	22
23	41.43	41.48	41.68	42.50	41.77	41.56	41.30	41.15	41.24	41.28	41.70	42.61	23
24	41.87	41.49	41.57	42.52	41.70	41.57	41.35	41.17	41.23	41.50	41.73	42.86	24
25	42.14	41.48	41.49	42.51	41.61 E	41.55	41.37	41.23	41.19	41.55	41.72	43.07	25
26	42.33	41.46	41.47	42.47	41.53 E	41.71	41.37	41.23	41.18	41.64	41.71	42.90	26
27	42.46	41.49	41.73	42.09	41.70 E	41.61	41.38	41.19	41.19	41.50	41.74	42.82	27
28	42.14	41.50	43.56	41.58	41.70 E	41.90	41.34	41.16	41.16	41.34	41.73	42.76	28
29	41.89	41.50	42.79	42.35		41.81	41.32	41.21	41.24	41.23	41.72	42.72	29
30	42.30	41.50	41.79	42.49		41.79	41.29	41.18	41.37	41.16	41.71	42.58	30
31	42.52		41.64	42.65		41.79		41.13		41.13	41.69		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
NR — NO RECORD  
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-28-73	2000	44.30									
1- 8-74	1430	44.90									
4- 2-74	2400	43.46									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE NT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.16	27.78	NR	25.50	28.35	24.77	25.27	23.61	23.17	23.63	23.11	24.93	1
2	23.31	27.31	NR	25.67	28.13	25.33	25.76	23.59	23.28	23.29	23.10	24.89	2
3	24.21	26.69	NR	26.54	27.34	27.49	27.63	23.48	23.35	23.26	23.39	24.93	3
4	25.59	26.36	NR	28.29	26.24	27.41	25.84	23.47	23.34	23.20	23.77	25.04	4
5	27.97	25.99	24.52	29.00	26.31	26.76	25.33	23.47	23.67	23.45	23.49	25.24	5
6	25.82	25.90	24.70	28.82	27.42	26.65	25.42	23.49	23.87	23.36	23.30	25.23	6
7	25.48	25.62	24.75	28.37	27.46	27.16	25.37	23.49	23.78	23.28	23.48	25.48	7
8	25.90	24.93	24.83	29.12	27.25	27.74	25.02	23.45	23.83	23.29	23.83	25.71	8
9	25.33	24.70	24.76	29.88	27.03	27.96	24.54	23.67	23.45	23.33	23.67	25.55	9
10	24.90	24.60	24.65	29.60	26.43	27.08	24.31	23.82	23.35	23.79	23.28	25.48	10
11	25.01	24.54	24.65	29.58	25.49	26.29	24.14	23.54	23.38	23.70	23.29	25.99	11
12	24.80	24.50	24.78	29.31	25.62	26.29	24.08	23.44	23.88	23.40	23.25	26.29	12
13	24.86	24.46	25.12	28.24	26.81	26.46	24.05	23.49	23.74	23.35	23.09	26.08	13
14	24.83	NR	25.13	26.77	27.08	26.44	23.98	23.43	23.57	23.30	23.11	25.98	14
15	24.81	NR	24.92	26.88	27.08	26.21	23.84	23.35	23.44	23.29	24.06	25.77	15
16	24.49	NR	24.82	27.93	26.94	25.65	23.78	23.30	23.38	23.27	24.69	25.64	16
17	25.79	NR	24.63	28.00	26.25	25.48	23.76	23.24	23.26	23.20	24.80	25.88	17
18	27.08	NR	24.50	27.91	25.35	25.24	23.80	23.23	23.16	23.14	24.87	27.39	18
19	27.33	NR	24.58	27.82	24.63	25.00	23.85	23.28	23.26	23.07	24.94	28.34	19
20	27.19	NR	24.57	27.28	24.70	25.07	23.93	23.40	23.29	23.36	24.69	28.68	20
21	26.45	NR	24.83	26.28	24.97	24.94	23.80	23.41	23.34	23.72	24.57	28.75	21
22	25.48	NR	25.45	26.82	25.23	24.70	23.73	23.34	23.27	23.38	24.79	28.65	22
23	24.56	NR	25.10	28.08	25.27	24.59	23.72	23.14	23.30	23.16	24.88	28.20	23
24	24.87	NR	24.84	28.22	25.01	24.61	23.83	23.23	23.32	23.63	24.95	27.85	24
25	26.41	NR	24.44	28.34	24.65	24.58	23.91	23.33	23.18	23.85	25.05	27.49	25
26	26.94	NR	24.34	28.44	24.50	24.78	23.79	23.42	23.18	24.15	24.86	27.50	26
27	27.56	NR	24.74	27.90	24.90	24.83	23.79	23.40	23.22	24.15	24.89	27.68	27
28	27.09	NR	27.28	26.71	24.87	25.14	23.80	23.33	23.17	23.73	25.03	27.78	28
29	26.26	NR	28.84	26.97		25.35	23.77	23.37	23.11	23.47	25.00	28.02	29
30	26.36	NR	26.57	28.11		25.15	23.67	23.37	23.44	23.32	24.97	27.96	30
31	27.64		25.74	28.29		25.19		23.20		23.15	24.93		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1- 8-74	2200	30.16									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT	DATE			FROM	TO	
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE		1960	1959	0.00 USED
				43.15a	12- 9-50			1960		0.00 USCGS
			37900b	42.86	1-27-69			1960		3.50 USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.98	16.95	16.23	19.27	21.44	16.24	19.26	17.02	17.83	14.86	14.32	15.67	1
2	14.83	16.84	16.27	19.16	21.32	16.40	19.67	17.32	18.07	14.66	14.32	15.77	2
3	15.17	16.86	16.25	19.22	20.89	17.73	20.62	17.26	18.33	14.55	14.26	15.72	3
4	15.60	16.13	16.23	19.95	20.35	18.27	20.68	17.15	18.29	14.49	14.46	15.68	4
5	16.91	15.86	16.27	20.34	19.87	18.10	20.56	17.13	18.06	14.63	14.47	15.66	5
6	16.42	15.72	16.37	20.36	19.95	18.33	20.93	17.20	17.94	14.56	14.30	15.67	6
7	15.98	15.66	16.35	20.35	19.58	19.18	21.08	16.89	17.93	14.53	14.28	15.74	7
8	16.59	15.30	16.38	20.52	19.15	19.78	20.82	16.75	17.92	14.74	14.48	15.90	8
9	16.59	15.22	16.32	21.35	18.84	19.87	20.23	17.08	18.20	14.93	14.52	15.88	9
10	16.39	15.38	16.22	21.51	18.50	19.67	19.80	17.52	18.76	15.35	14.42	15.75	10
11	16.54	15.48	16.15	21.62	17.96	19.20	19.41	17.88	18.84	15.37	14.45	16.01	11
12	16.46	15.49	16.17	21.59	17.51	18.84	19.22	18.05	18.23	15.21	14.51	16.26	12
13	16.35	15.49	16.24	21.12 E	18.03	18.73	19.17	17.94	17.46	15.20	14.36	16.10	13
14	16.19	15.54	16.20	20.30 E	18.24	18.51	19.17	17.74	17.12	15.27	14.31	16.00	14
15	16.10	15.52	16.08	20.37 E	18.26	18.11	18.95	17.99	16.67	15.12	14.59	15.92	15
16	15.81	15.47	16.37	21.00 E	18.11	17.51	18.59	18.29	17.27	14.84	14.94	15.91	16
17	15.93	15.49	16.55	21.29 E	17.72	17.26	18.25	18.28	17.81	14.70	15.11	15.98	17
18	16.50	15.55	16.52	21.25 E	17.20	17.10	18.09	18.18	17.47	14.53	15.25	16.57	18
19	16.73	15.59	16.55	21.12 E	16.65	16.85	18.11	18.12	17.09	14.38	15.34	17.24	19
20	16.83	15.81	16.55	20.93	16.46	16.85	18.17	18.02	16.59	14.41	15.27	17.58	20
21	16.71	16.27	16.59	20.78	16.55	16.74	17.94	17.64	16.02	14.63	15.20	17.68	21
22	16.22	16.67	16.91	20.76	16.67	16.62	17.48	16.72	15.67	14.59	15.15	17.69	22
23	15.79	16.64	16.99	21.49	16.73	16.57	17.15	16.03	15.46	14.34	15.26	17.65	23
24	15.66	16.34	16.99	21.63	16.62	16.51	16.55	15.81	15.52	14.27	15.30	17.49	24
25	16.31	16.13	16.90	21.90	16.47	16.60	16.44	15.67	15.31	14.43	15.47	17.61	25
26	16.63	16.12	16.81	22.16	16.27	16.70	16.25	15.60	15.27	14.55	15.52	17.68	26
27	16.96	16.18	16.95	22.19	16.40	17.59	16.18	15.53	15.15	14.68	15.47	17.62	27
28	16.91	16.28	18.04	21.55 E	16.36	18.20	16.76	15.39	15.01	14.50	15.42	17.62	28
29	16.46	16.34	19.84	21.35 E		18.68	17.12	16.15	14.78	14.49	15.53	17.58	29
30	16.23	16.24	19.65	21.87		18.70	17.04	16.80	14.82	14.42	15.49	17.68	30
31	16.88		19.35	21.74 E		18.98		17.46		14.30	15.56		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
NR — NO RECORD  
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-11-74	1200	21.71									
1-30-74	1600	21.98									
4-7-74	1600	21.10									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E	45,550	38.31a	1-27-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959 1959	1959	0.00 0.00 3.41	USED USCGS USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.73	2.13	4.64	6.51	7.44	5.28	10.27	7.16	9.44	1.53	1.51	1.51	1
2	1.74	2.13	4.52	6.38	7.04	6.35	10.86	6.85	9.40	1.51	1.46	1.56	2
3	1.73	2.13	4.50	6.35	7.06	5.88	9.96	6.85	8.85	1.51	1.44	1.53	3
4	1.73	2.15	4.52	6.36	6.66	5.52	9.94	6.82	8.39	1.52	1.45	1.52	4
5	1.76	2.16	4.51	6.37	6.06	5.27	9.94	6.81	8.51	1.54	1.50	1.48	5
6	1.85	2.19	4.53	6.82	6.06	5.00	9.74	5.14	8.40	1.60	1.62	1.49	6
7	1.91	2.21	4.49	6.55	6.05	5.00	9.34	6.67	8.61	1.64	1.64	1.52	7
8	2.32	2.17	4.45	6.43	6.06	5.33	8.92	7.25	9.16	1.67	1.63	1.51	8
9	1.72	2.17	4.45	6.37	6.08	5.20	8.88	8.54	9.05	1.79	1.52	1.55	9
10	1.53	2.16	4.47	6.33	6.09	5.17	8.85	9.38	6.83	1.85	1.44	1.51	10
11	1.57	2.17	4.52	6.35	6.10	5.17	9.08	8.58	4.69	1.77	1.43	1.53	11
12	1.38	2.20	4.53	6.39	6.12	5.16	9.50	8.05	4.43	1.66	1.45	1.54	12
13	1.32	2.27	4.58	6.36	6.12	5.16	9.49	8.33	5.26	1.62	1.41	1.57	13
14	1.31	2.39	5.15	6.27	6.13	5.16	9.46	9.37	4.18	1.60	1.40	1.57	14
15	1.31	2.44	6.40	6.22	5.72	5.23	9.21	9.40	5.85	1.61	1.39	1.55	15
16	1.31	2.42	6.39	6.13	5.13	5.34	8.69	9.28	6.64	1.63	1.41	1.60	16
17	1.34	2.42	6.40	7.40	5.13	5.35	8.55	9.17	6.17	1.60	1.44	1.69	17
18	2.64	2.45	6.40	9.94	5.13	5.64	8.27	8.68	5.53	1.63	1.46	1.74	18
19	2.89	2.41	6.38	9.86	5.14	6.18	8.94	7.89	3.50	1.66	1.48	1.65	19
20	2.72	2.35	6.36	9.41	5.29	6.18	7.19	6.77	2.89	1.60	1.44	1.62	20
21	2.76	1.97	6.40	9.39	5.65	6.18	7.10	4.75	2.89	1.55	1.43	1.65	21
22	2.55	2.30	6.52	9.03	5.66	6.17	6.10	3.15	2.89	1.51	1.42	1.73	22
23	1.65	2.39	6.36	9.04	5.66	6.14	3.93	2.63	2.95	1.53	1.41	1.68	23
24	1.36	3.56	6.33	10.07	5.65	6.00	3.63	2.47	3.46	1.52	1.44	1.64	24
25	1.28	3.78	6.32	10.04	5.64	6.79	3.67	1.87	3.78	1.53	1.44	1.63	25
26	1.26	4.00	6.33	10.07	5.50	9.03	4.16	1.71	2.65	1.57	1.43	1.61	26
27	1.25	4.51	7.11	9.99	5.26	8.78	6.19	2.79	2.06	1.53	1.46	1.63	27
28	1.23	4.51	6.94	10.01	5.25	8.57	6.20	7.22	1.75	1.55	1.53	1.70	28
29	1.24	4.51	6.48	9.40		8.73	6.16	8.51	1.63	1.54	1.52	1.70	29
30	1.53	4.49	6.41	7.93		9.42	6.56	9.73	1.59	1.57	1.49	1.68	30
31	2.17		6.37	7.67		9.67		9.43		1.52	1.52		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED  
NR — NO RECORD  
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
4-1-74	2400	11.58									
1-24-74	1600	10.31									
5-30-74	0815	10.04									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

**TABLE B-9 (Cont.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	36.67	36.20	40.34	44.08	47.33	42.62	50.97	45.34	50.32	37.89	36.99	37.15	1
2	36.46	36.37	40.65	44.23	46.76	43.24	51.64	46.18	50.46	37.47	36.88	37.37	2
3	36.66	36.38	40.57	44.03	46.15	44.44	52.57	45.86	50.41	37.40	37.10	37.33	3
4	36.78	36.37	40.58	44.02	46.07	43.98	52.05	45.86	49.76	37.32	37.05	37.05	4
5	36.80	36.38	40.58	44.05	45.24	43.19	51.79	45.85	48.74	37.36	37.05	37.40	5
6	36.92	36.43	40.43	44.22	44.43	42.90	51.69	45.90	48.88	37.74	37.11	37.50	6
7	36.87	36.41	40.45	44.92	44.25	42.47	51.44	43.67	48.78	37.78	36.82	37.31	7
8	37.68	36.37	40.39	44.58	44.15	42.46	50.82	45.22	49.09	37.48	36.63	37.28	8
9	37.41	36.34	40.33	44.25	44.12	42.75	50.34	46.41	49.82	37.52	36.57	37.59	9
10	37.07	36.34	40.31	44.09	44.10	42.85	50.23	48.53	49.80	38.46	36.87	37.96	10
11	36.61	36.31	40.36	44.02	44.09	43.04	49.89	49.82	46.40	38.44	37.05	37.01	11
12	36.45	36.33	40.43	44.12	44.08	42.78	50.27	49.18	42.76	37.97	36.94	37.55	12
13	36.44	36.40	40.45	44.26	44.09	42.57	50.84	48.32	42.60	37.96	36.79	37.41	13
14	36.41	36.51	40.53	44.10	44.06	42.49	50.91	48.65	42.87	37.64	36.91	37.40	14
15	36.27	36.69	41.47	43.94	44.04	42.32	50.86	50.07	42.17	37.70	36.82	37.26	15
16	36.24	36.79	43.14	43.87	43.24	42.66	50.51	50.56	44.21	37.25	36.99	37.28	16
17	35.47	36.86	43.43	43.79	42.51	42.83	49.94	50.55	44.48	37.41	36.94	37.37	17
18	35.99	36.90	43.50	46.13	42.38	42.95	49.50	50.47	44.72	37.29	36.93	37.53	18
19	36.47	36.90	43.60	49.51	42.35	43.32	49.11	49.82	43.28	37.07	36.88	37.80	19
20	37.38	36.88	43.62	50.25	42.28	44.02	49.39	48.65	40.70	37.14	36.88	37.92	20
21	37.36	36.84	43.68	49.90	42.62	43.95	47.52	46.39	39.65	37.22	36.80	37.67	21
22	37.42	36.61	43.89	49.78	43.02	43.97	46.92	43.12	39.46	37.33	36.64	37.73	22
23	37.40	36.55	44.01	49.40	43.25	43.90	44.93	40.77	39.61	37.17	36.49	37.61	23
24	36.73	36.76	43.79	49.37	43.35	43.86	42.59	40.12	39.87	36.98	36.55	37.47	24
25	36.34	37.99	43.73	50.59	43.34	43.61	42.10	39.77	40.26	36.87	36.79	37.42	25
26	36.15	38.72	43.73	50.93	43.28	45.36	41.99	39.16	40.58	36.79	36.89	37.58	26
27	36.03	39.20	44.24	51.08	43.03	48.62	43.09	38.99	39.38	36.86	36.62	37.78	27
28	35.97	39.92	46.09	51.05	42.71	49.24	45.19	40.87	38.76	37.03	36.52	38.24	28
29	35.93	40.08	45.59	51.10		49.19	45.11	45.62	38.17	36.98	36.91	38.48	29
30	35.90	40.16	44.50	50.39		49.33	44.73	48.06	37.95	36.86	36.89	38.33	30
31	35.90		44.16	48.11		50.31		50.14		37.04	37.04		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
— ESTIMATED	1-29-74	2200	51.14									
NR — NO RECORD	4- 3-74	0730	52.73									
NE — NO FLOW	5-16-74	0630	50.59									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.18	27.21	31.26	34.78	37.78	33.48	40.90	35.86	40.30	29.50	28.46	28.49	1
2	28.14	27.44	31.57	34.91	37.36	33.69	41.38	36.83	40.50	29.22	28.33	28.78	2
3	28.27	27.48	31.58	34.76	36.70	35.15	42.25	36.50	40.42	29.11	28.34	28.84	3
4	28.33	27.48	31.56	34.73	36.58	34.70	42.12	36.52	40.01	29.09	28.53	28.39	4
5	28.43	27.49	31.58	34.73	36.05	34.07	41.81	36.50	39.07	29.28	28.50	28.69	5
6	28.46	27.54	31.45	34.82	35.17	33.86	41.69	36.54	39.10	29.41	28.46	28.81	6
7	28.57	27.51	31.45	35.47	35.00	33.47	41.52	34.94	39.02	29.38	28.10	28.51	7
8	29.07	27.47	31.40	35.26	34.91	33.40	41.05	35.75	39.15	29.29	28.01	28.63	8
9	28.82	27.44	31.33	34.98	34.87	33.68	40.59	36.70	39.80	29.34	28.05	28.90	9
10	28.54	27.44	31.31	34.79	34.84	33.85	40.46	38.55	39.95	29.75	28.32	29.19	10
11	28.19	27.40	31.35	34.72	34.83	33.99	40.18	39.78	37.47	30.06	28.56	29.04	11
12	27.96	27.40	31.42	34.77	34.81	33.80	40.36	39.51	34.27	29.56	28.36	28.85	12
13	27.88	27.45	31.44	34.92	34.81	33.58	40.89	38.77	33.53	29.47	28.08	28.84	13
14	27.75	27.54	31.50	34.79	34.79	33.54	41.04	38.88	34.23	29.28	28.25	28.68	14
15	27.67	27.70	32.04	34.65	34.77	33.34	40.95	39.96	33.25	29.44	28.17	28.78	15
16	27.51	27.81	33.67	34.57	34.27	33.51	40.64	40.57	34.98	29.06	28.15	28.70	16
17	27.33	27.89	34.10	34.50	33.49	33.67	40.18	40.59	35.88	29.06	28.22	28.74	17
18	27.22	27.95	34.25	35.86	33.33	33.77	39.73	40.57	35.64	29.00	28.22	28.72	18
19	27.39	27.96	34.33	39.12	33.28	34.01	39.45	40.13	34.66	28.80	28.31	28.95	19
20	28.26	27.95	34.35	40.10	33.23	34.70	39.64	39.16	32.38	28.88	28.21	29.22	20
21	28.39	27.93	34.40	39.95	33.39	34.71	38.29	37.42	31.37	28.91	28.25	28.94	21
22	28.44	27.77	34.54	39.78	33.81	34.84	37.55	34.53	31.09	28.97	28.11	28.67	22
23	28.48	27.60	34.72	39.62	33.96	34.82	36.05	32.39	31.17	28.77	27.85	28.90	23
24	28.00	27.78	34.53	39.32	34.12	34.72	33.87	31.71	31.19	28.53	28.09	28.80	24
25	27.57	28.55	34.46	40.34	34.12	34.61	33.27	31.39	31.53	28.42	28.27	28.68	25
26	27.35	29.47	34.47	40.77	34.05	35.59	33.13	30.86	32.01	28.16	28.25	28.93	26
27	27.22	29.90	34.77	40.96	33.90	38.66	33.80	30.65	31.03	28.26	27.83	29.00	27
28	27.13	30.69	36.32	40.96	33.56	39.41	35.79	31.62	30.39	28.39	27.84	29.35	28
29	27.09	30.97	36.31	40.99		39.46	35.84	35.90	29.86	28.39	28.12	29.69	29
30	27.04	31.10	35.27	40.69		39.45	35.44	37.93	29.55	28.36	28.28	29.72	30
31	27.02		34.90	38.77		40.25		39.96		28.34	28.40		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-30-74	0100	41.05									
4- 3-74	1645	42.41									

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.06	12.70	12.62	15.83	18.23	13.27	16.43	14.17	14.92	11.19	10.35	11.53	1
2	10.92	12.64	12.66	15.76	18.05	13.32	16.80	13.83	15.13	10.98	10.35	11.71	2
3	11.12	12.26	12.70	15.77	17.65	14.50	17.60	13.81	15.37	10.85	10.28	11.64	3
4	11.49	12.04	12.70	16.33	17.18	15.07	17.83	13.90	15.34	10.80	10.41	11.58	4
5	12.63	11.83	12.70	16.73	16.68	14.90	17.72	14.02	15.10	10.88	10.48	11.58	5
6	12.62	11.67	12.74	16.81	16.61	14.92	18.04	14.13	14.93	10.87	10.35	11.56	6
7	12.06	11.61	12.74	16.85	16.32	15.52	18.18	13.88	14.93	10.84	10.27	11.57	7
8	12.62	11.28	12.75	16.97	15.91	16.02	18.00	13.51	14.91	10.98	10.40	11.76	8
9	12.75	11.13	12.74	17.61	15.55	16.22	17.42	14.02	15.23	11.07	10.44	11.82	9
10	12.53	11.23	12.64	17.84	15.38	16.17	17.02	14.50	15.67	11.47	10.46	11.63	10
11	12.54	11.34	12.59	17.92	14.93	15.80	16.59	14.96	15.73	11.65	10.44	11.83	11
12	12.46	11.36	12.58	17.99	NR	15.49	16.36	15.17	14.88	11.51	10.52	12.10	12
13	12.31	11.36	12.64	17.73	NR	15.36	16.35	15.07	13.90	11.41	10.35	12.02	13
14	12.15	11.39	12.65	17.07	NR	15.18	16.39	14.90	13.66	11.51	10.28	11.93	14
15	12.03	11.41	12.58	16.41	15.07	14.86	16.23	15.04	13.14	11.37	10.43	11.88	15
16	11.74	11.42	13.00	16.67	14.95	14.35	15.88	15.39	13.26	11.04	10.77	11.85	16
17	11.68	11.43	13.32	16.70	14.52	14.15	15.53	15.44	14.38	10.86	10.92	11.88	17
18	12.15	11.48	13.33	16.76	14.09	14.03	15.30	15.35	14.34	10.72	11.08	12.28	18
19	12.42	11.50	13.37	17.51	13.57	13.92	15.29	15.24	13.81	10.53	11.17	12.94	19
20	12.63	11.67	13.40	17.99	13.38	14.00	15.29	15.08	13.20	10.52	11.11	13.37	20
21	12.69	12.03	13.43	17.90	13.42	13.93	15.11	14.62	12.50	10.71	11.06	13.52	21
22	12.28	12.41	13.69	17.79	13.57	13.82	14.58	13.67	12.12	10.76	10.96	13.51	22
23	11.90	12.48	13.83	18.40	13.67	13.77	14.19	12.77	11.93	10.53	11.05	13.54	23
24	11.67	12.28	13.83	18.53	13.63	13.69	13.46	12.37	11.98	10.41	11.07	13.35	24
25	12.06	12.10	13.75	18.83	13.54	13.77	13.17	12.20	11.88	10.52	11.27	13.40	25
26	12.37	12.17	13.68	19.04	13.58	13.84	12.97	12.07	11.92	10.56	11.39	13.52	26
27	12.64	12.30	13.79	19.08	13.43	14.87	12.87	11.97	11.73	10.64	11.31	13.53	27
28	12.69	12.49	14.73	18.79	13.41	15.49	13.54	11.79	11.52	10.58	11.18	13.57	28
29	12.30	12.62	16.38	18.41		15.94	13.98	12.90	11.27	10.56	11.28	13.56	29
30	12.01	12.63	16.29	18.80		15.91	14.12	13.74	11.18	10.53	11.33	13.67	30
31	12.53		15.93	18.65		16.15		14.53		10.39	11.40		31

## MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-27-74	0700	19.16									

E -- ESTIMATED

NR -- NO RECORD

NE -- NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-10

CORRECTIONS AND REVISIONS  
TO  
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published.

For other corrections and revisions to previously published reports dating back to 1924, refer to Page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
132		Bulletin No. 23-58 <u>Surface Water Flow for 1958</u> Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data 1963 <u>Volume IV, San Joaquin Valley</u> Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge of record	1140E	804
B-98	8 (12.00-13.75)	Table B-87 Tranquillity Irrigation District	Maximum Discharge flow 1963 Water gage ht. Year	3850E 9.98	4170E 10.07
			Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
			Diversions Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	204    1777 4066   557 6306 1414 14324	204   52 2005 4112 383 2291 7200 7454 6659 1414 31774
68		Bulletin No. 130-64 Hydrologic Data 1964 <u>Volume IV, San Joaquin Valley</u> Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
61		Bulletin No. 130-65 Hydrologic Data 1965 <u>Volume IV, San Joaquin Valley</u> Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8 9 10 11 12 13 14 15 16 17	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	B NR A NR C NR K NR W NR A NR T NR E NR R NR NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions Total	omitted in 1965	700
76		Bulletin No. 130-66 Hydrologic Data 1966 <u>Volume IV, San Joaquin Valley</u> Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

LOCATION OF ERROR			CHANGE	
PAGE	MILE & BANK	NAME	ITEM	FROM TO
86		Table B-4 Merced River at Cressey	Minimum discharge Month 1966 Water Year	7 8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January	18033 1833
			Average cubic feet per second	293 29.8
			Monthly use in percent of seasonal	3.5 0.4
			Total Diversion	516577 500377
			Average cubic feet per second	714 691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct.	15655 15696
			Nov.	12685 12721
			Dec.	14987 15023
			Jan.	7812 7851
			Feb.	11913 11946
			March	15566 12607
			April	11060 11106
			May	15208 15260
			June	18388 18438
			July	21398 21462
			Aug.	21312 21379
			Sept.	19498 19552
			Total	185482 183041
		* Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley		
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept.	40 17
			Total	278 255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley		
104		Table B-5 Laguna Water District	Diversions May	90
			June	110
			July	110
			Aug.	90
			Total	400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steenstrup Estate John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley		
54		Table B-4 San Joaquin River near Dos Palos	Maximum Discharge Month 1969 Water Year	3 6
			Day	11 16
			Time	2300 0800
			Gage Ht.	10.42 10.38
			Flow	5560 5900
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21	946 980
			Monthly Mean	189 190
			Monthly acre-feet	11620 11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year	42800 45550
			Gage Ht.	36.46 36.87
			Time	0400 0300
			Maximum Discharge CFS	42800 45550
			of record Gage Ht.	36.46 36.87
			Feet	37.00 38.31
			Last line Hours	2400 2000
			Date	2-28-69 1-27-69
95		Table B-4 Tule River below Porterville	Maximum Discharge 1969 Water Year	3066
			Discharge Gage Ht.	5.35
			Month	2
			Day	26
			Time	1200
130		Table B-12 San Joaquin River at Fremont Ford Bridge	Maximum Discharge CFS	8260b 9180b
			of Record Gage Ht.	68.02 68.05
			Date	2-27-69 2-26-69
			Footnote a	Delete Entire Note

\* Additional corrections for 1967 are listed on page 120

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge Gage Ht. of Record Date	37.00a 2-28-69	38.31a 1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 Volume IV, San Joaquin Valley			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5 Monthly Acre-feet Water Year Total	132.0 7604 43386	27.5 7397 43179
102		Table B-6 Firebaugh Canal Company Firebaugh Canal Company	Diversion for April Total Diversion for Year	9657 51595	7370 49308
		Fremont Ford Bridge to Gravelly Ford	Total for Reach	897796	895509
108		Table B-6 Woods-Central Ditch	Diversions June Total	7604 43386	7397 43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of record CFS Gage Ht. 68.02 Date 2-27-69 Footnote a Delete Entire Note	8260b 68.02 2-27-69	9180b 68.05 2-26-69
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
		Bulletin No. 130-73 Hydrologic Data 1973 Volume IV, San Joaquin Valley			
78		Table B-3 Friant-Kern Canal Delivery to Tule River	Discharge Monthly March Acre-feet April Acre-feet	3906 0	0 3906
		Bulletin 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
128		Merced Irrigation District, Main Canal			
		Table B-7 Diversion and Acreage Irrigated East Side Canals and Irrigation Districts	Monthly Acre-feet Jan Feb Mar Total Acre-feet	0 0 504 548009	1227 1100 1575 551407

APPENDIX C  
GROUND WATER MEASUREMENTS



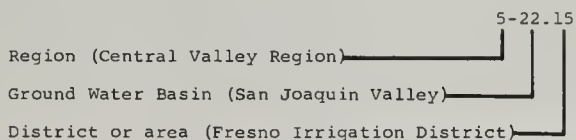
# INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

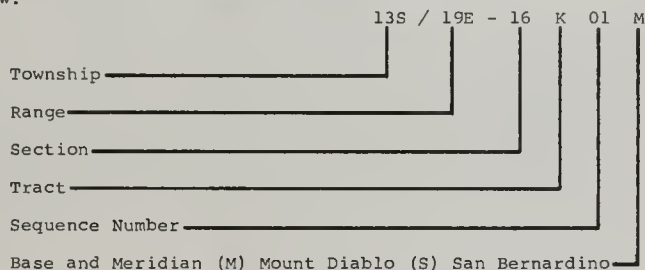
This appendix presents ground water measurement data on these wells for the period October 1, 1973, through September 30, 1974. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

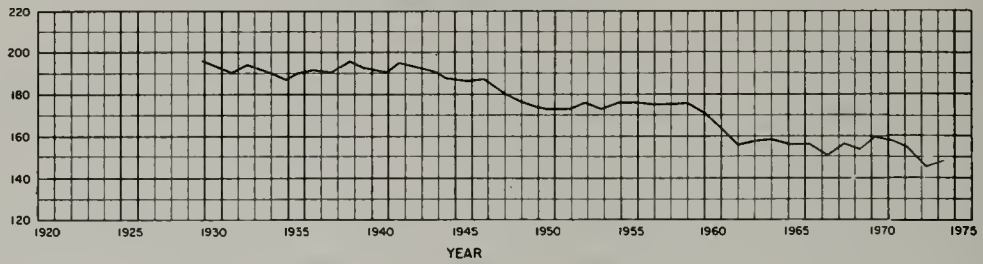
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

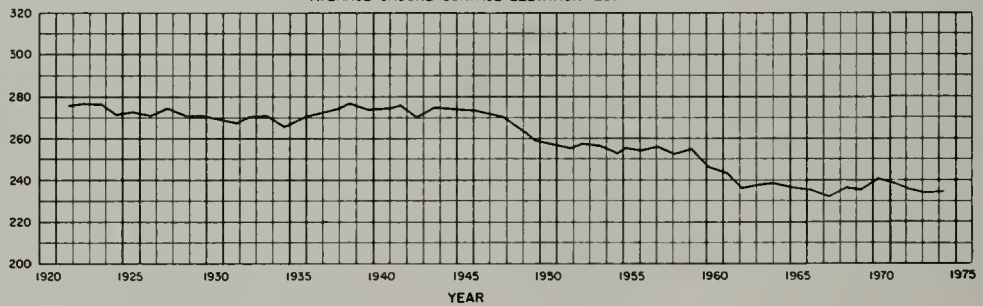
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

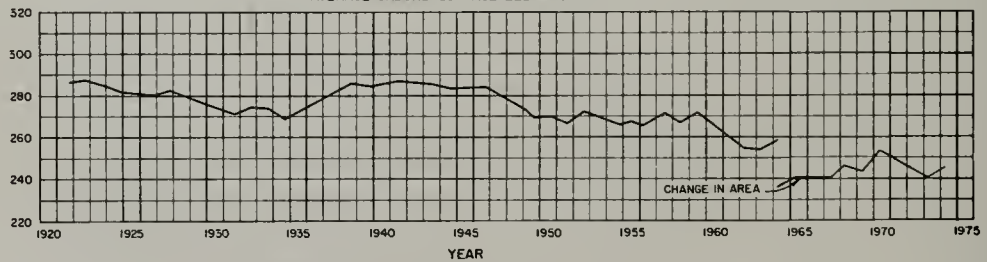
**MADERA GROUND WATER AREA**  
 AREA 342.6 SQUARE MILES  
 AVERAGE GROUND SURFACE ELEVATION 230'



**FRESNO GROUND WATER AREA**  
 AREA 404.0 SQUARE MILES  
 AVERAGE GROUND SURFACE ELEVATION 291'



**CONSOLIDATED GROUND WATER AREA**  
 AREA 243.0 SQUARE MILES  
 AVERAGE GROUND SURFACE ELEVATION 296'



**CENTERVILLE BOTTOMS GROUND WATER AREA**  
 AREA 18.15 SQUARE MILES  
 AVERAGE GROUND SURFACE ELEVATION 363'

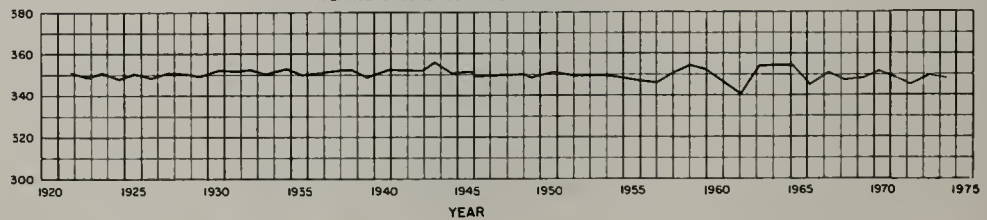


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET - U.S.C.&G.S. DATUM

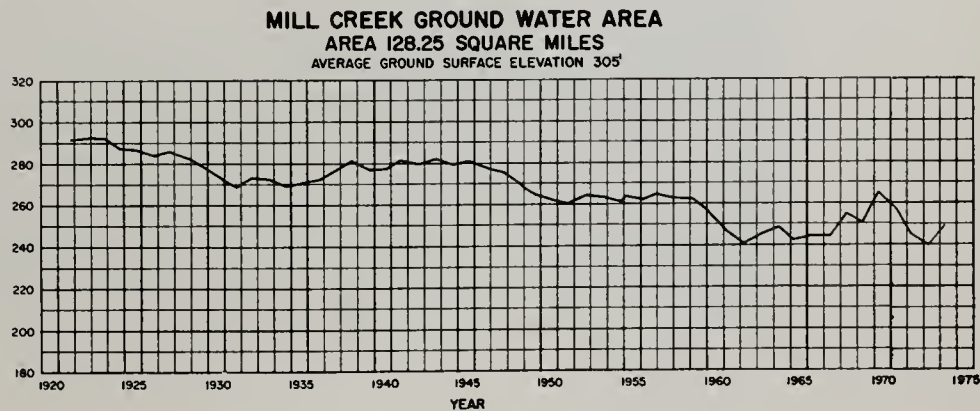
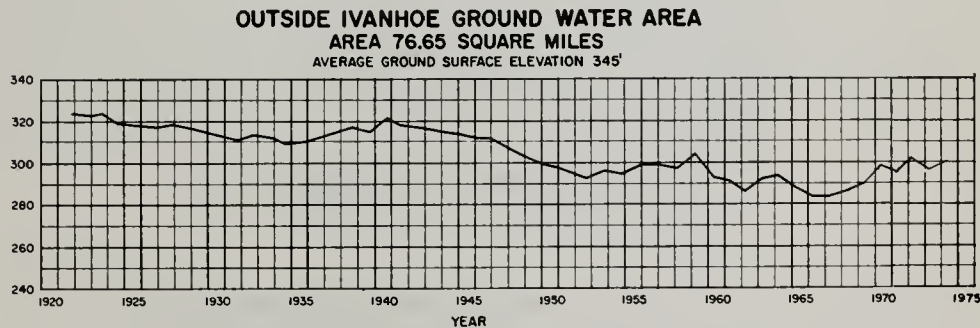
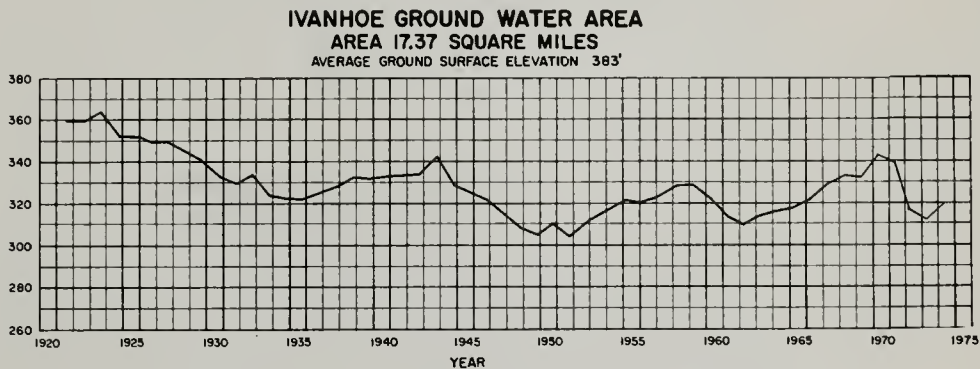
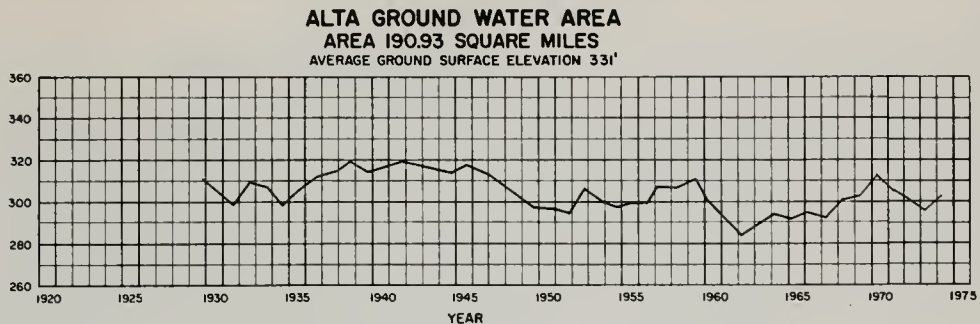
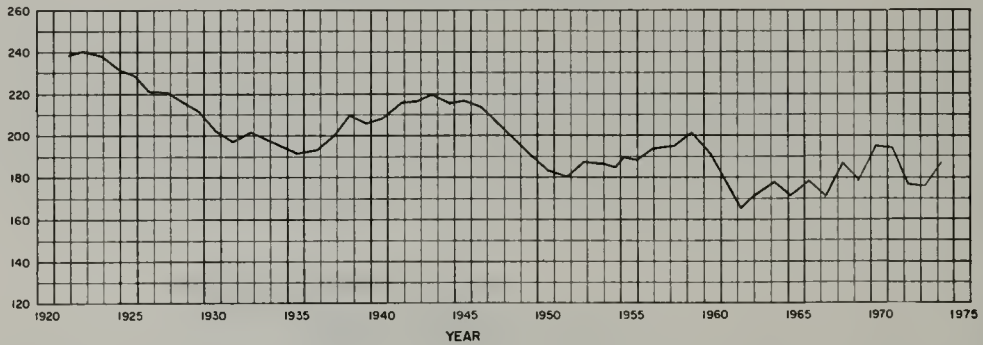


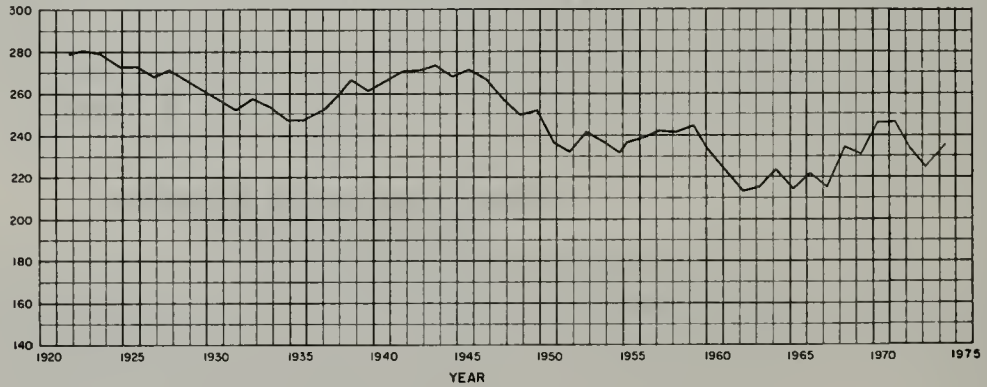
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION  
IN FEET - U.S.C. & G.S.  
DATUM

**TULARE GROUND WATER AREA**  
**AREA 121.07 SQUARE MILES**  
 AVERAGE GROUND SURFACE ELEVATION 363'



**ELK BAYOU GROUND WATER AREA**  
**AREA 67.6 SQUARE MILES**  
 AVERAGE GROUND SURFACE ELEVATION 295'



**LINDSAY-EXETER GROUND WATER AREA**  
**AREA 136.43 SQUARE MILES**  
 AVERAGE GROUND SURFACE ELEVATION 377'

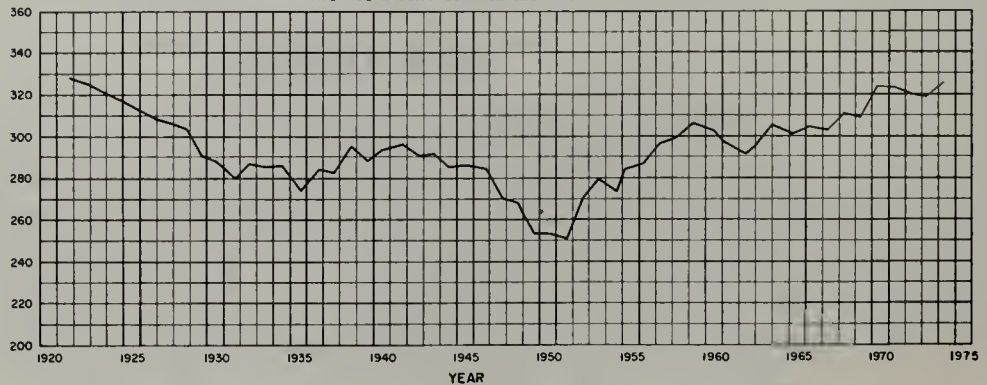


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

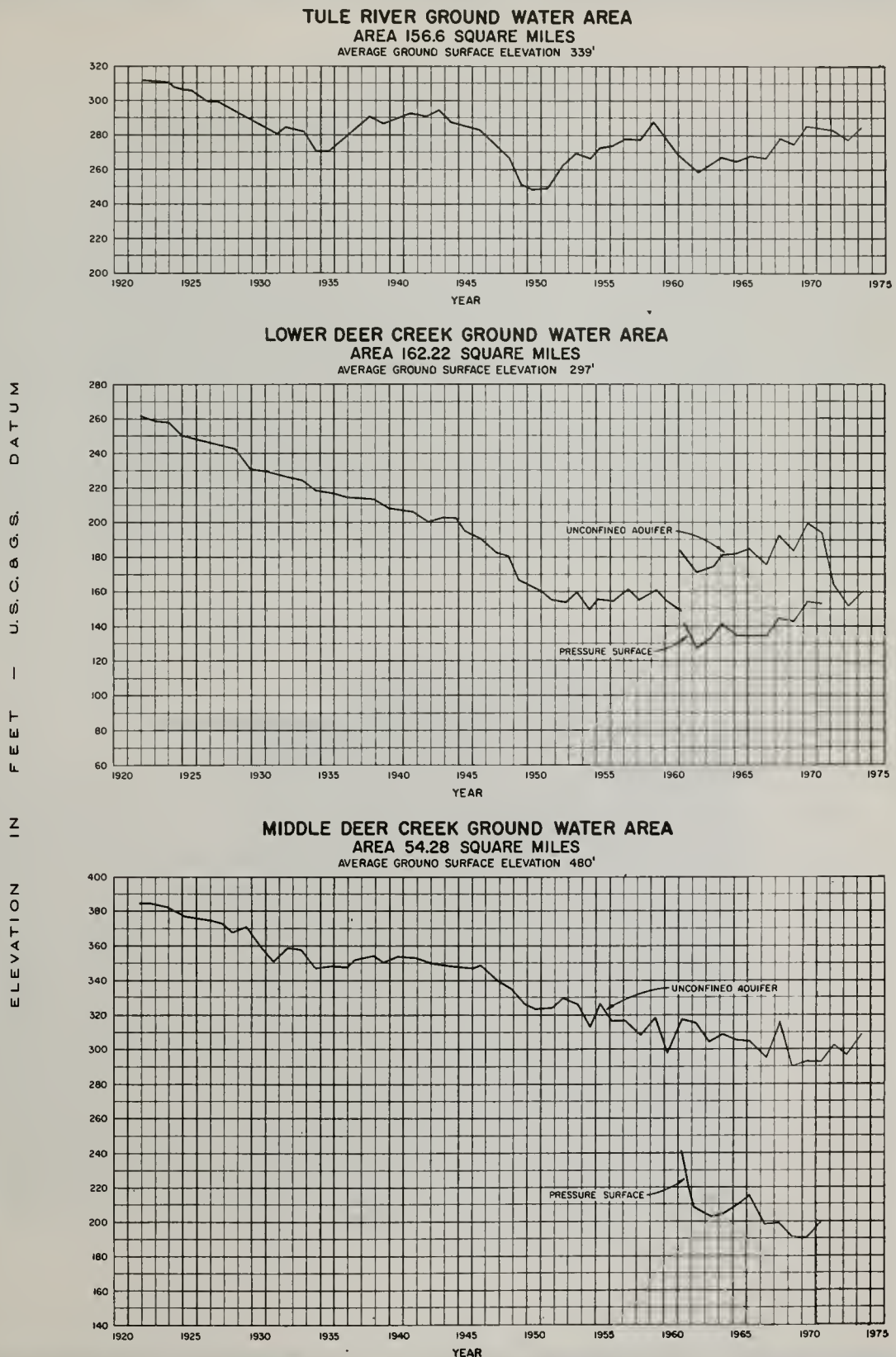


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

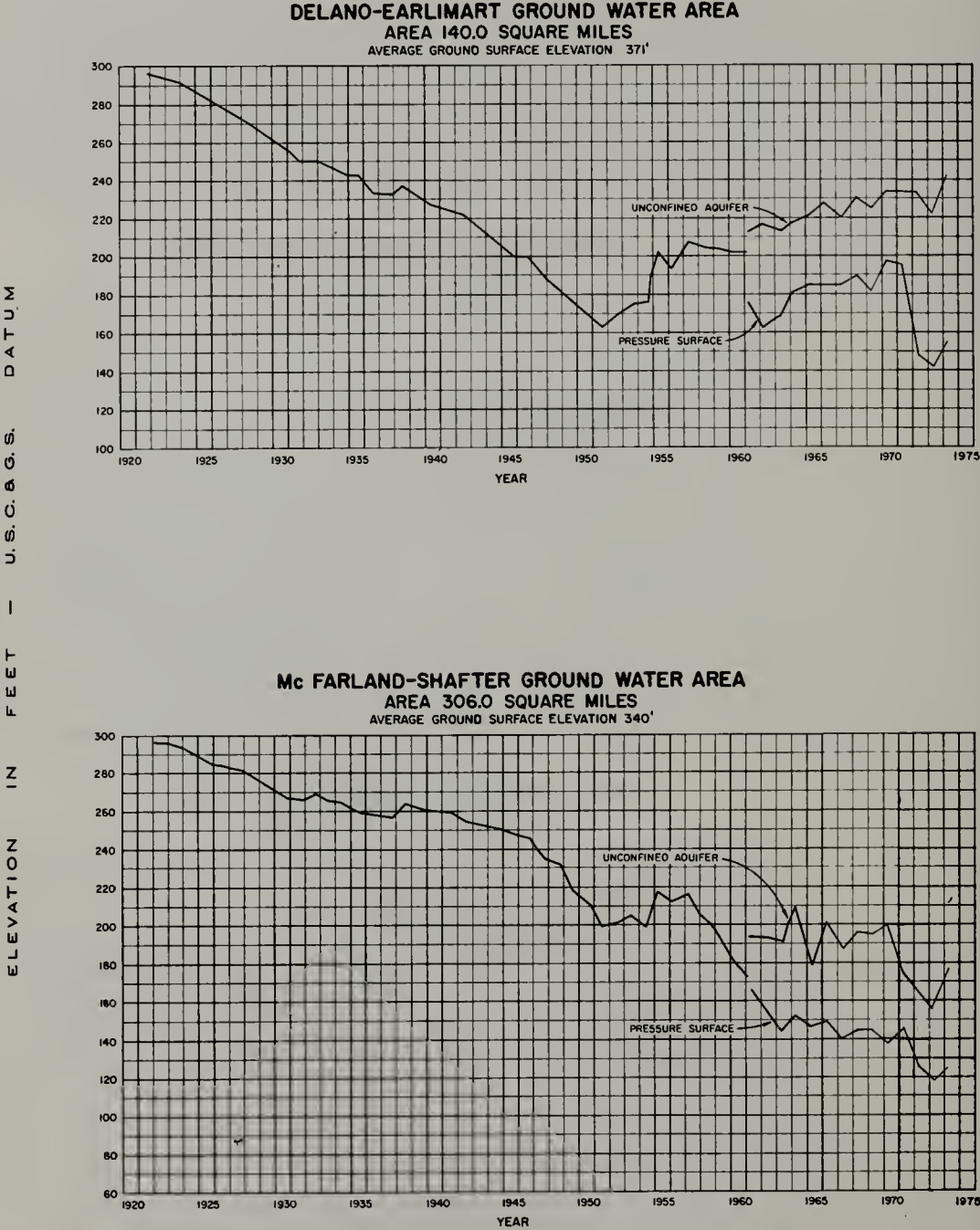
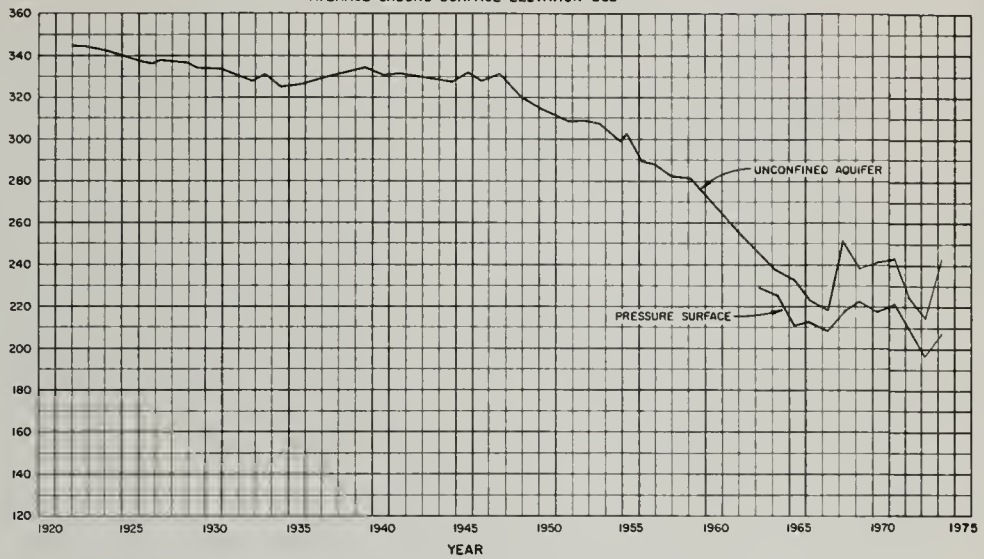


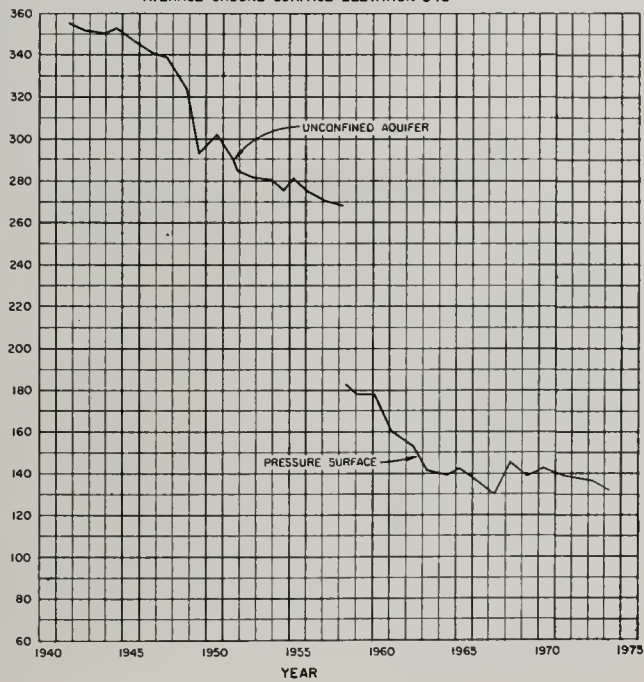
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

**ROSEDALE GROUND WATER AREA**  
**AREA 78.88 SQUARE MILES**  
 AVERAGE GROUND SURFACE ELEVATION 363'



**ARVIN-EDISON GROUND WATER AREA**  
**AREA 205.18 SQUARE MILES**  
 AVERAGE GROUND SURFACE ELEVATION 543'



**Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS**

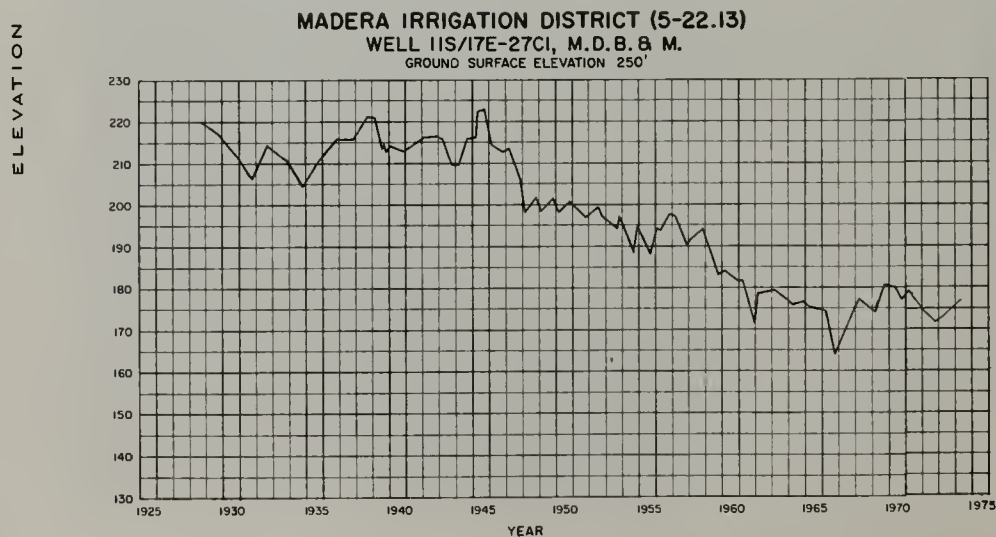
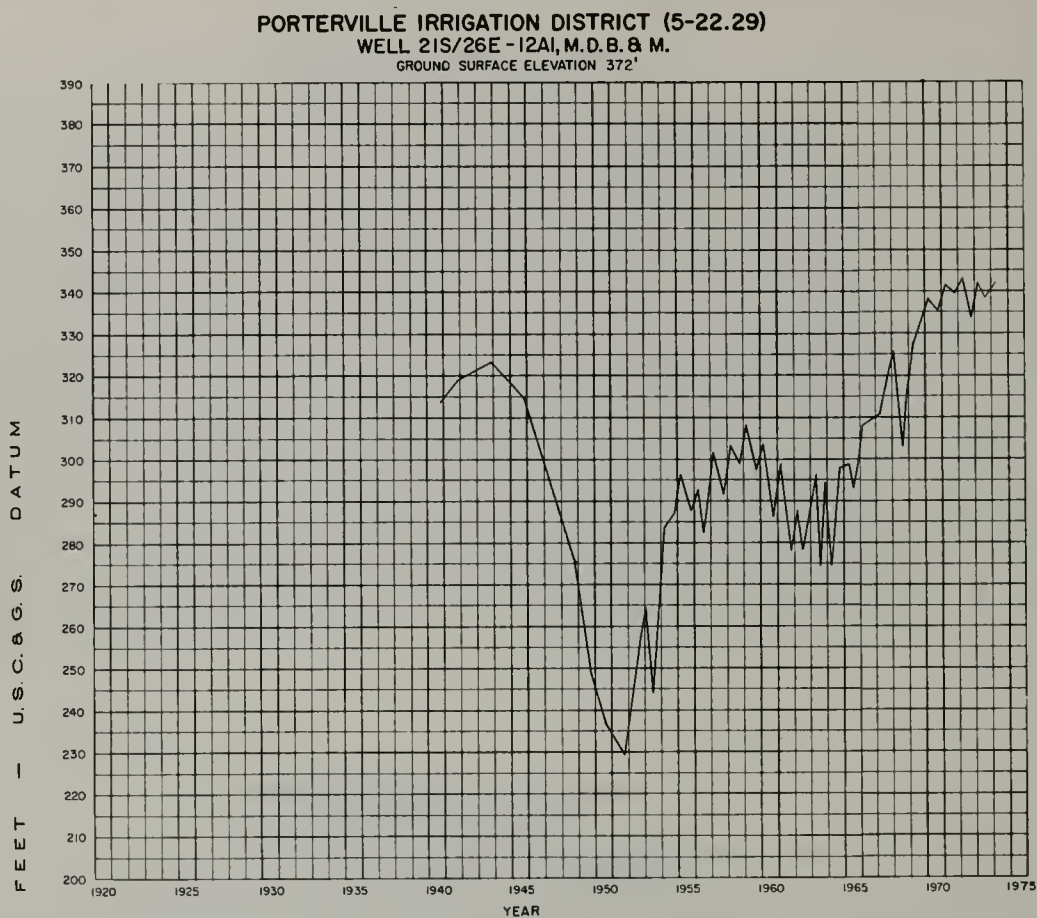
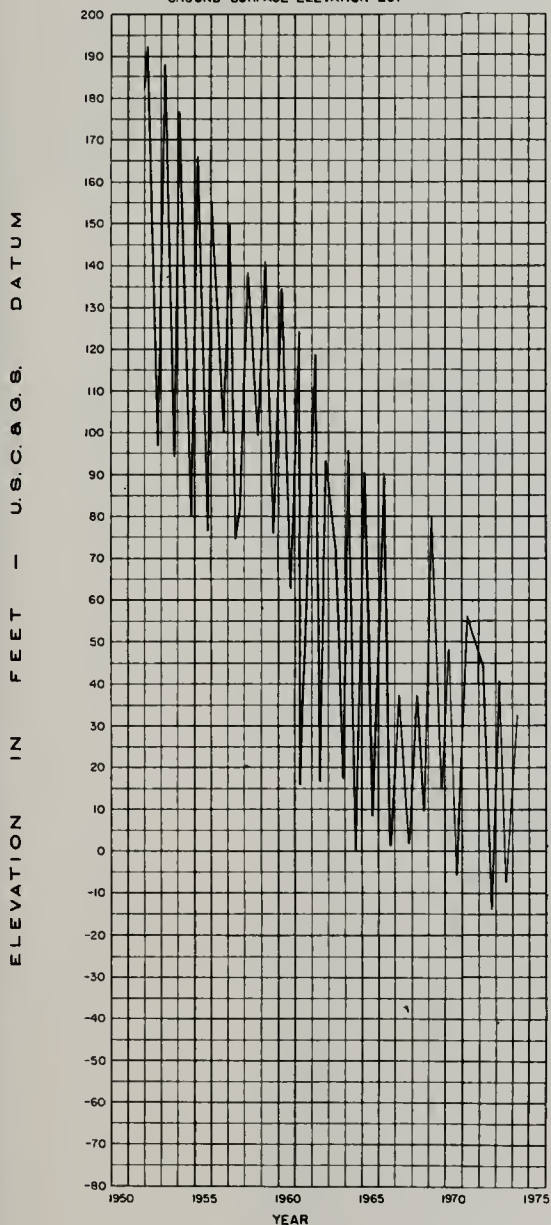
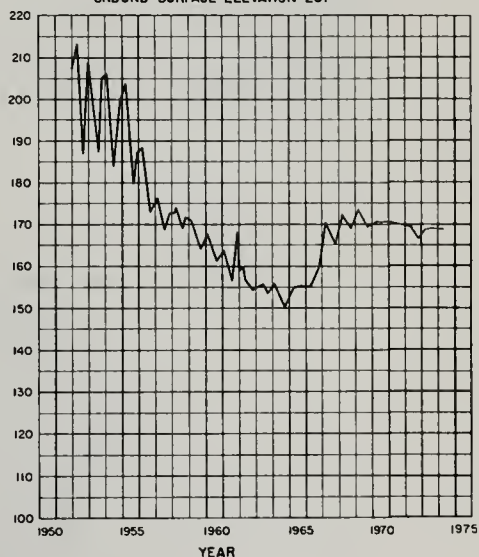


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-  
DEEP ZONE (5-22.43)  
WELL 27S/23E-IR4, M.D.B. & M.  
GROUND SURFACE ELEVATION 267'**



**SEMITROPIC WATER STORAGE DISTRICT-  
SHALLOW ZONE (5-22.43)  
WELL 27S/23E-IR1, M.D.B. & M.  
GROUND SURFACE ELEVATION 267'**



**MERCED IRRIGATION DISTRICT  
(5-22.09)  
WELL 7S/11E-IH1, M.D.B. & M.  
GROUND SURFACE ELEVATION 118'**

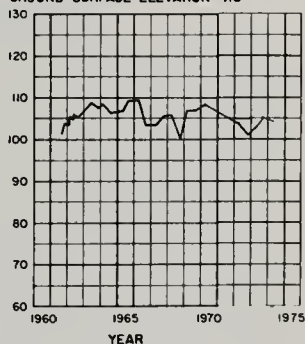
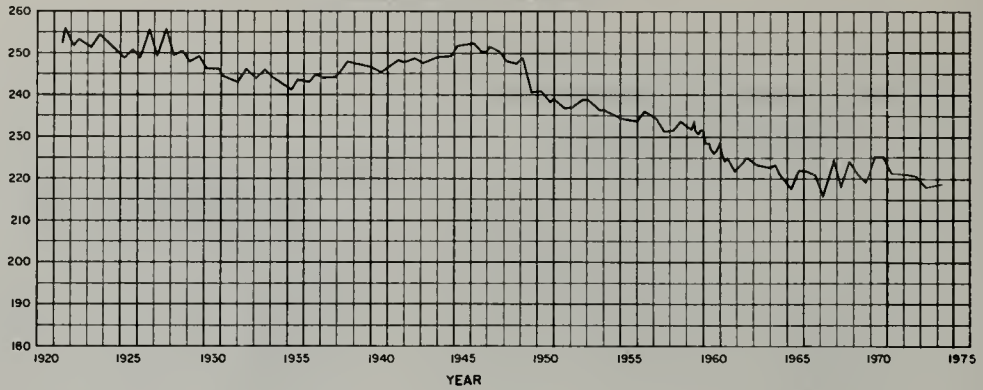


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C. & G.S. DATUM

**FRESNO IRRIGATION DISTRICT (5-22.15)**  
**WELL 13S/19E-9Q1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 288.2'



**NORTH KERN WATER STORAGE DISTRICT (5-22.37)**  
**WELL 27S/25E-22A1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 392'

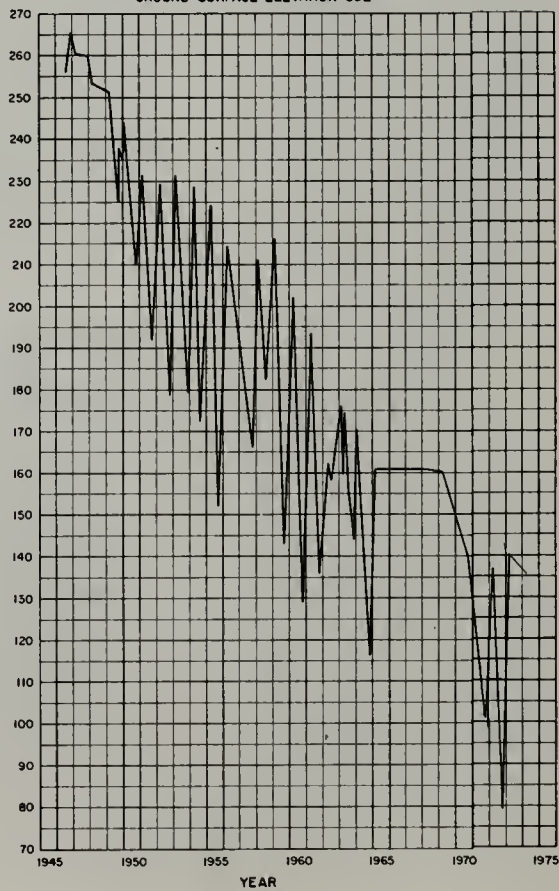
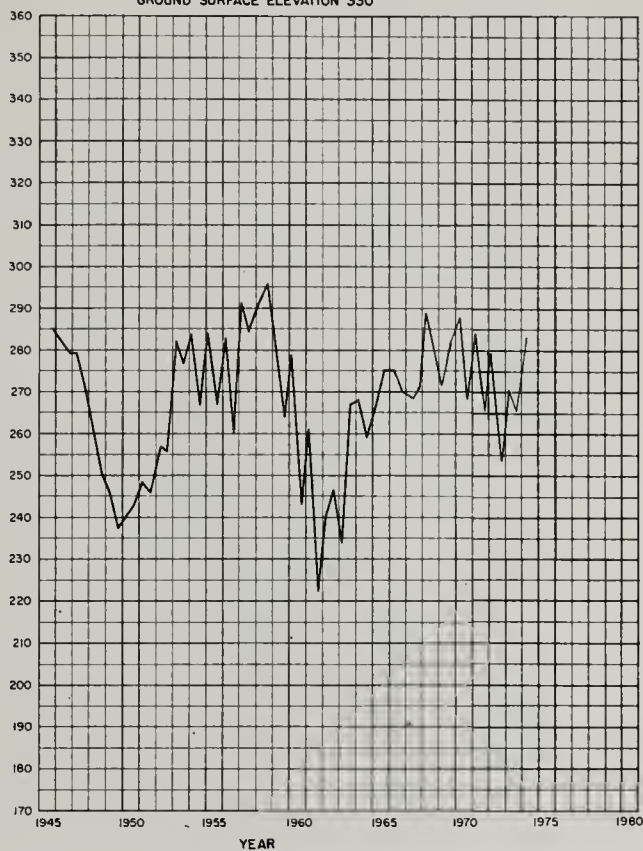


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION  
IN FEET - U.S.C.&G.S. DATUM

**LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)**  
**WELL 21S/26E-7A1, M.D.B.& M.**  
 GROUND SURFACE ELEVATION 330'



**OAKDALE IRRIGATION DISTRICT (5-22.06)**  
**WELL 2S/10E-33J1, M.D.B.& M.**  
 GROUND SURFACE ELEVATION 165'

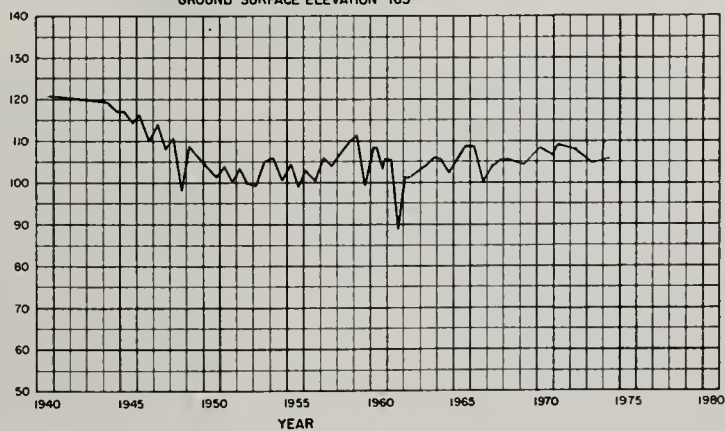
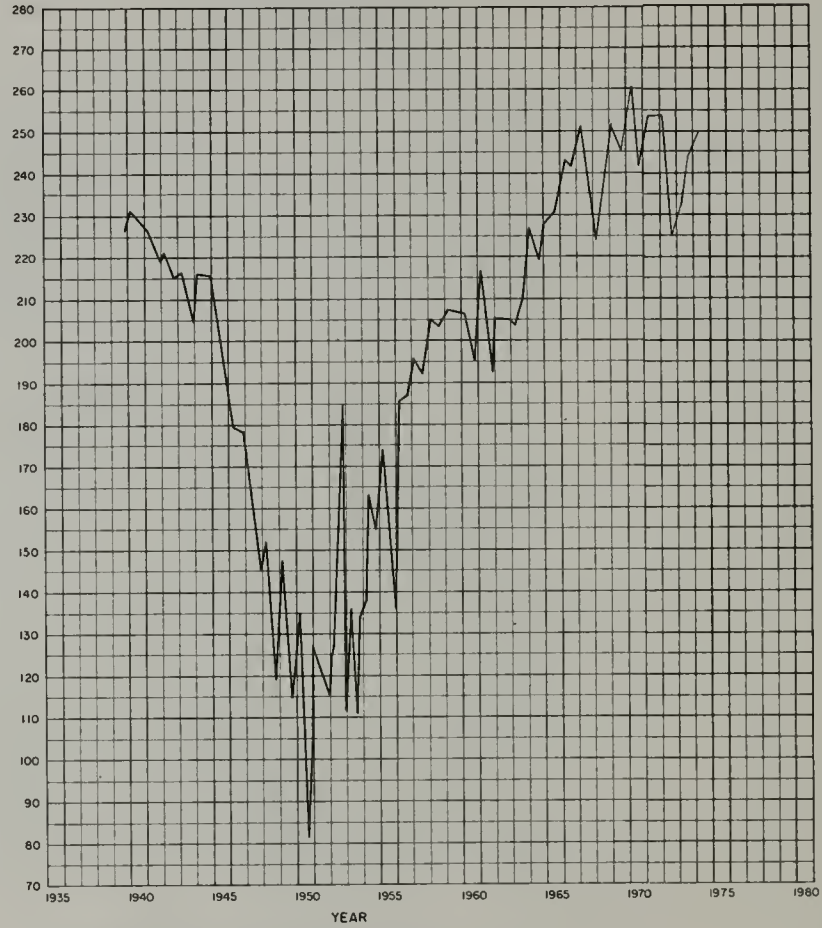


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION  
IN  
FEET - U.S.C.&G.S. DATUM

**SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)**  
**WELL 25S/26E-28H2, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 415'



**AVENAL-Mc KITTRICK AREA (5-22.44)**  
**WELL 25S/19E-20Q2 M.D.B. & M.**  
 GROUND SURFACE ELEVATION 480'

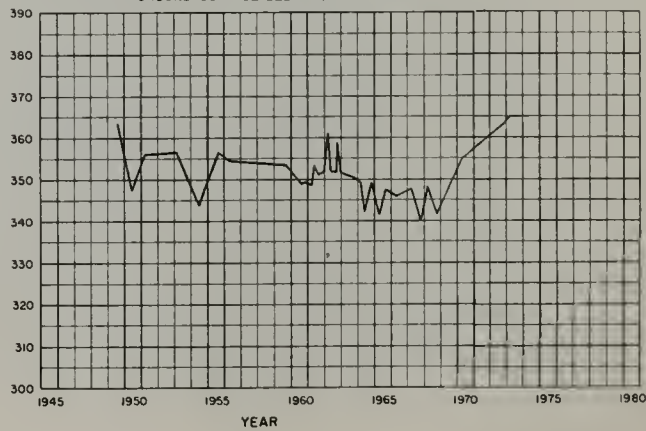
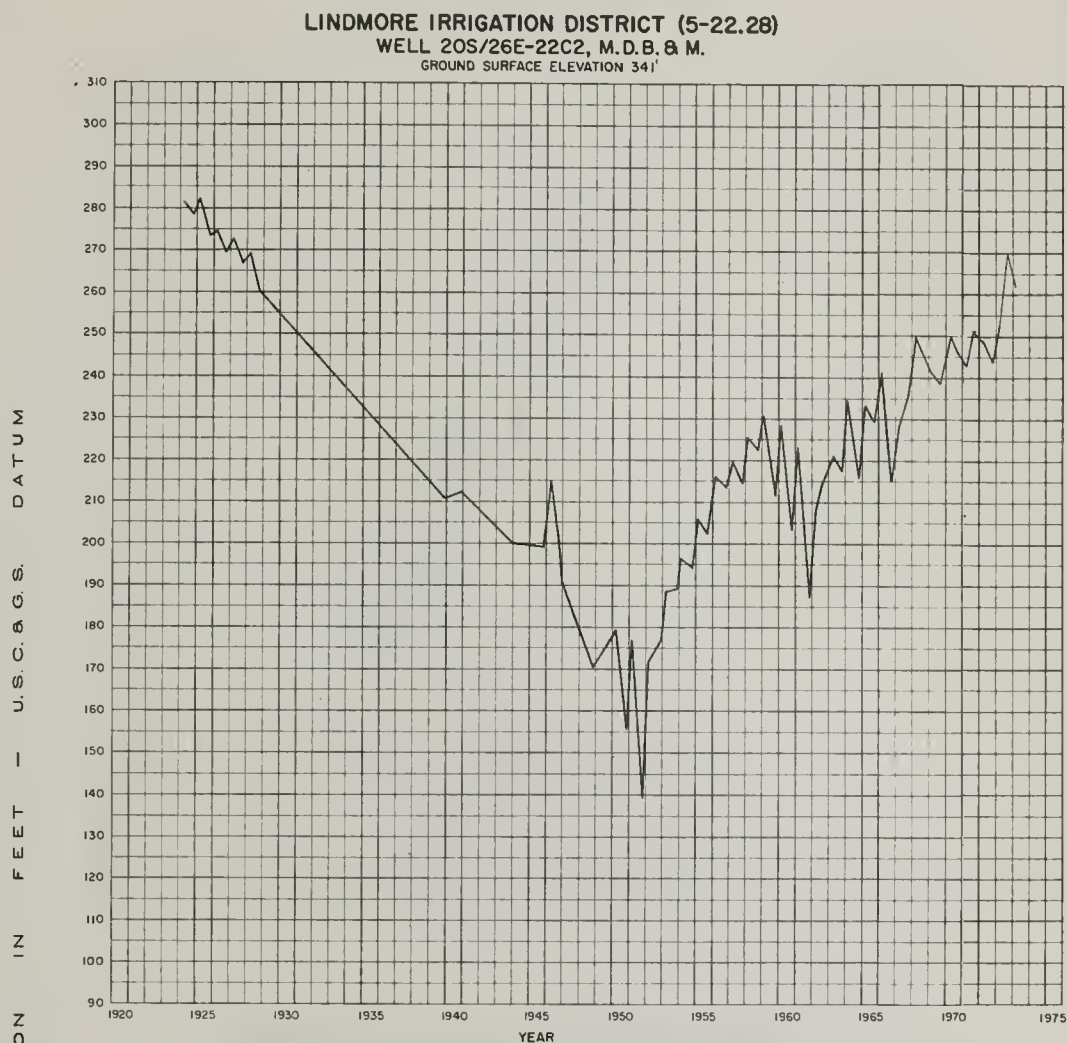
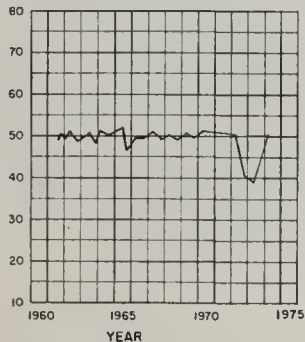


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



**MODESTO IRRIGATION DISTRICT  
(5-22.07)**

**WELL 3S/8E-22C2, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 64'



**TURLOCK IRRIGATION DISTRICT  
(5-22.08)**

**WELL 5S/9E-4A1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 70'

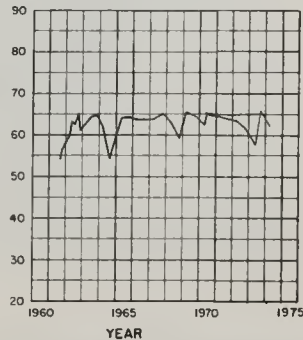
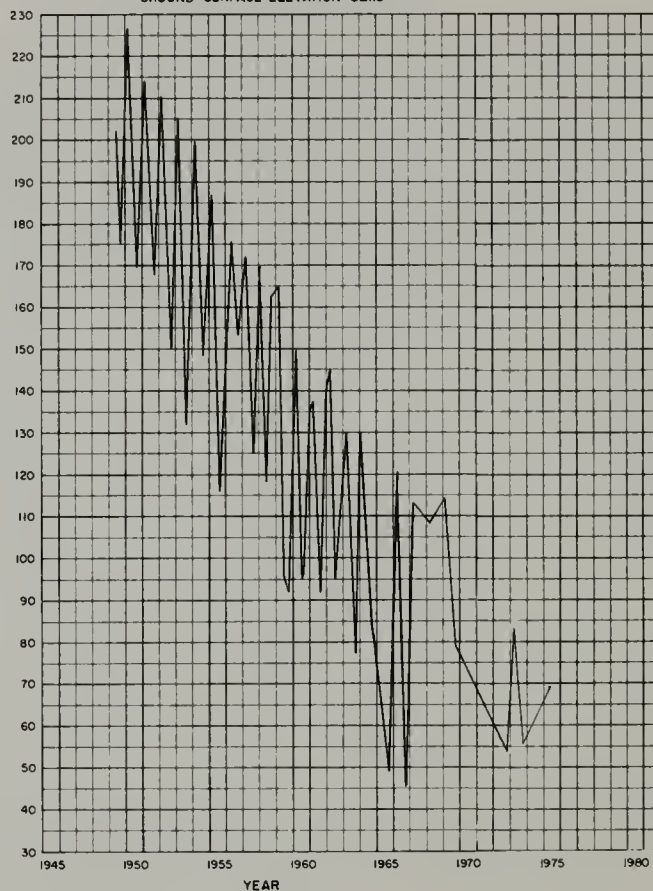


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION  
IN  
FEET  
-  
U.S.C. & G.S.  
DATUM

**SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)**  
**WELL 27S/24E-35C1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 321.8'



**DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)**  
**WELL 3S/6E-25D1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 63.5'

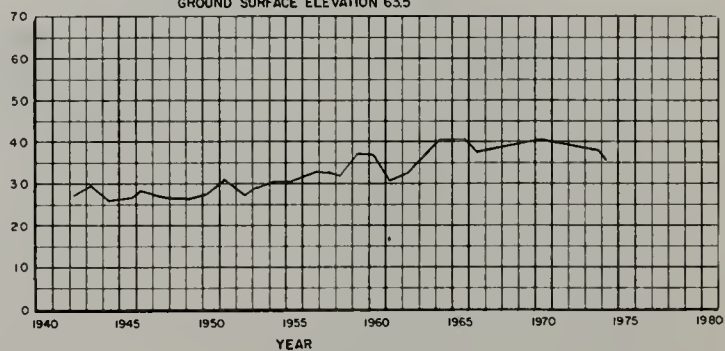
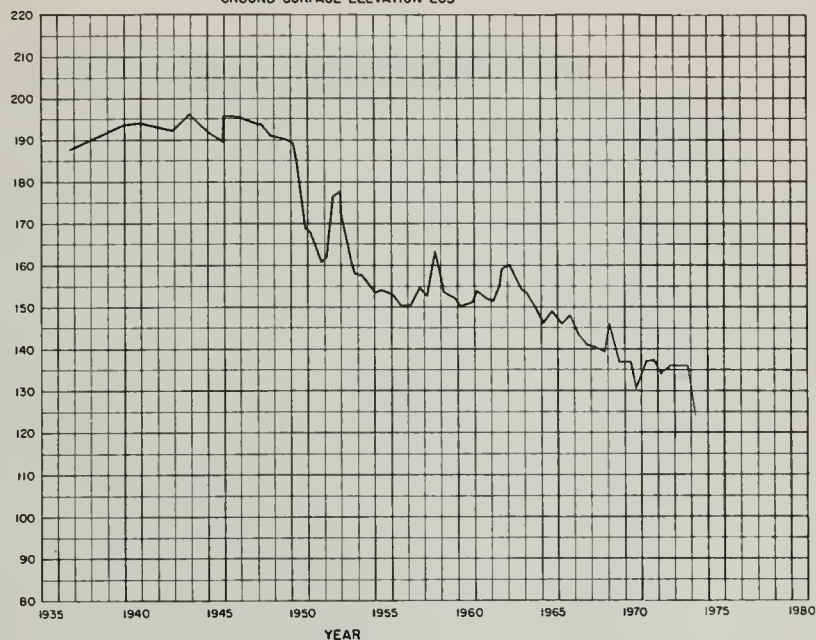


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C. & G.S. DATUM

**ALPAUGH-AlLENSWORTH AREA (5-22.34)**  
**WELL 24S/23E-21B2, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 205'



**MENDOTA-HURON AREA (5-22.47)**  
**WELL 14S/15E-30M1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 187'

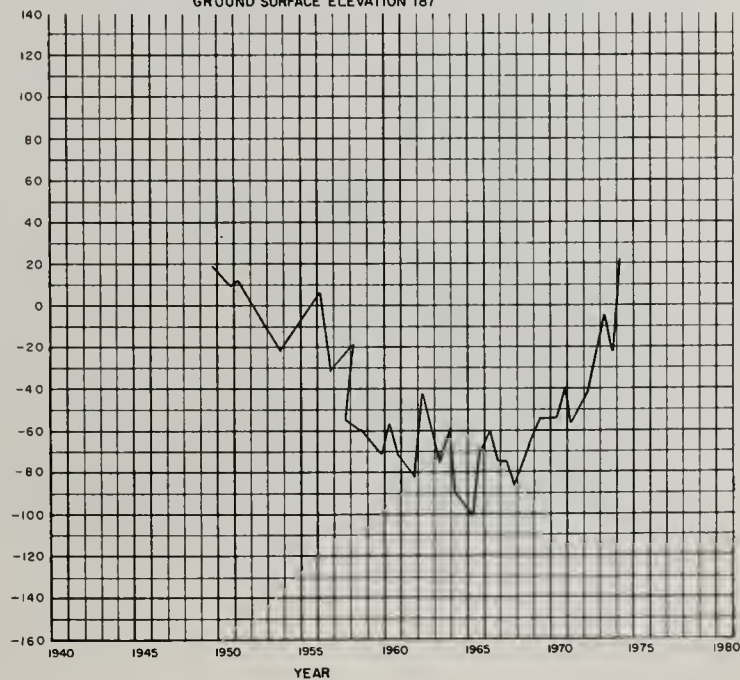


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

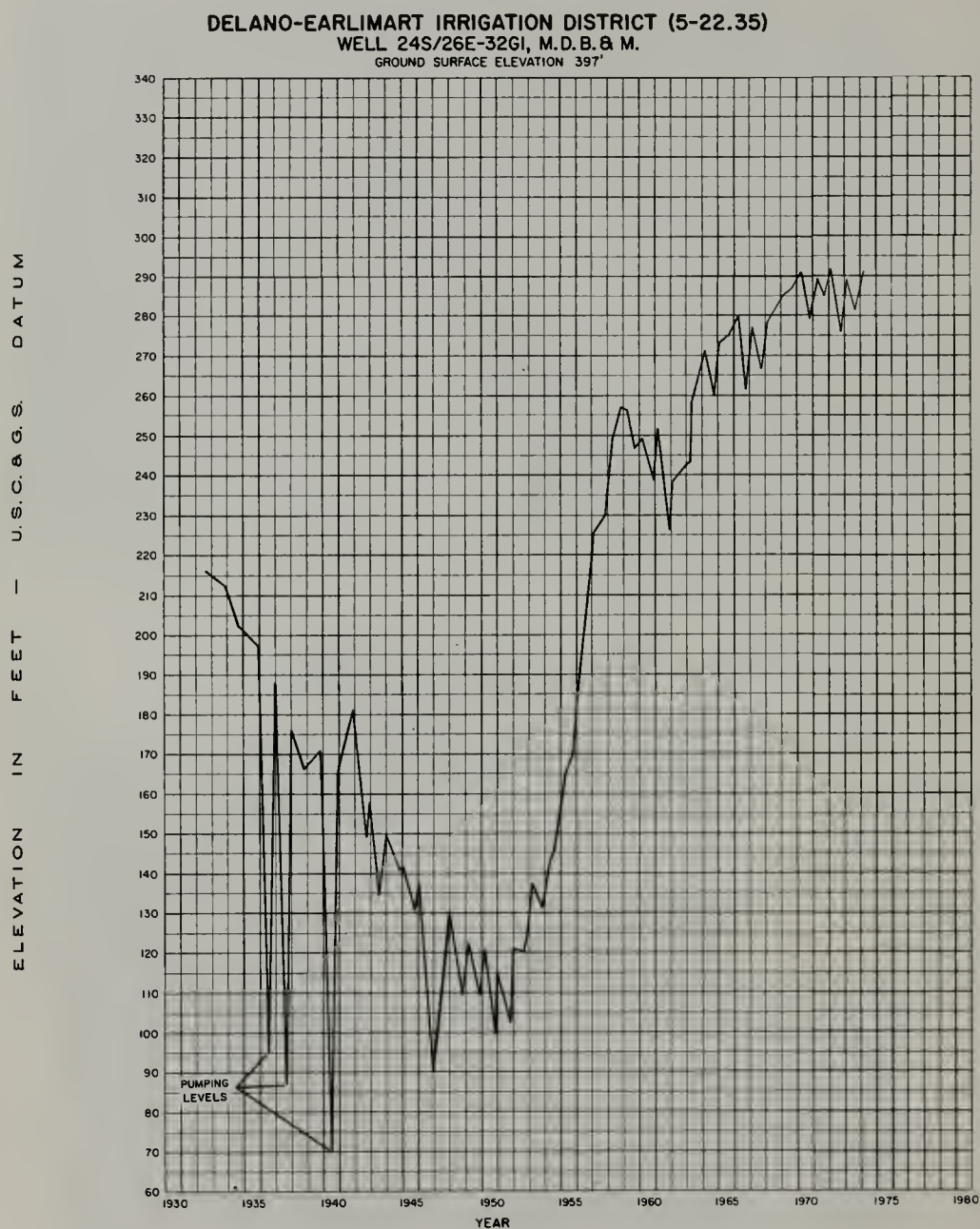
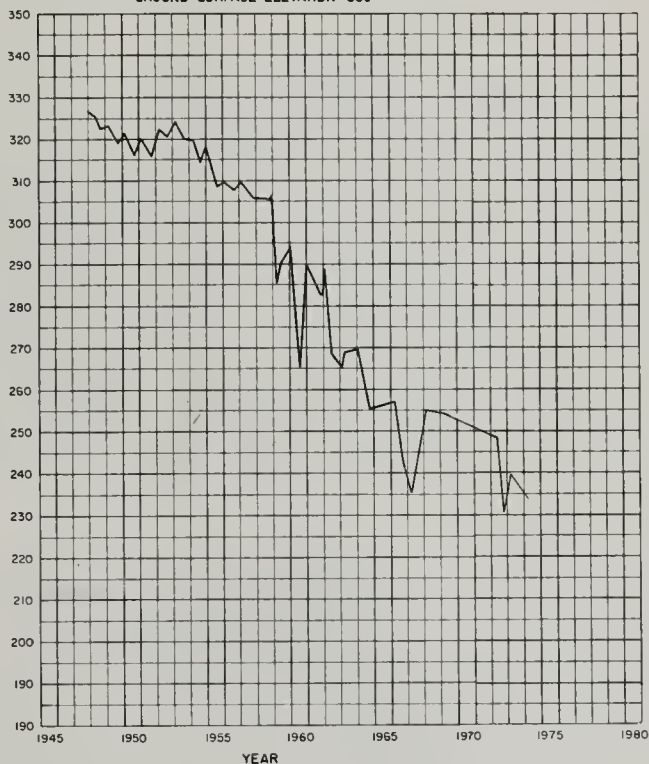


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION  
IN  
FEET  
-  
U.S.C.&G.S.  
DATUM

**KERN RIVER DELTA AREA (5-22.40)**  
**WELL 30S/26E-27A1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 339'



**STONE CORRAL  
 IRRIGATION DISTRICT (5-22.22)**  
**WELL 17S/26E-7R1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 364'

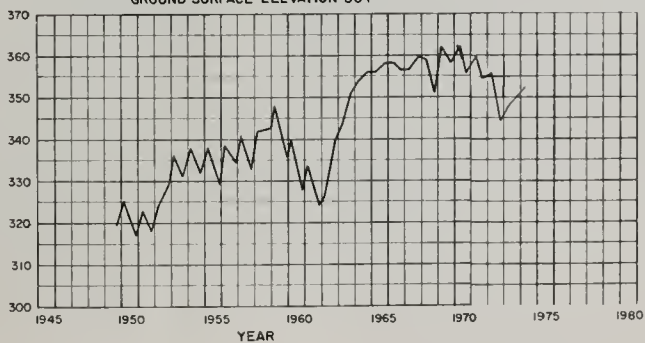
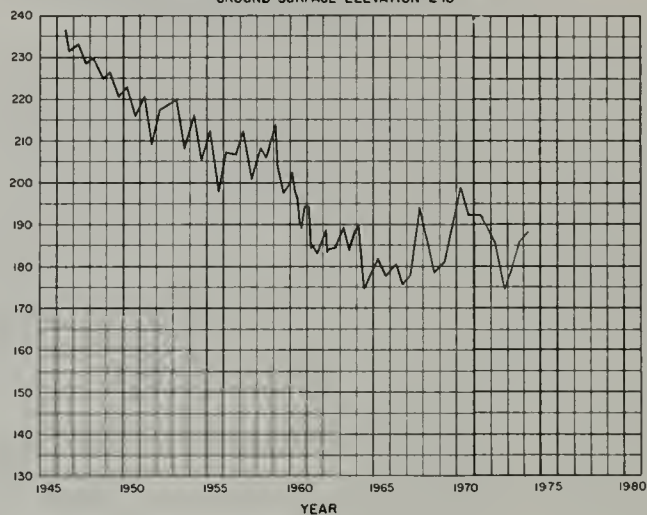


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION  
IN  
FEET  
—  
U.S.C. & G.S.  
DATUM

**CONSOLIDATED IRRIGATION DISTRICT (5-22.18)**  
**WELL 16S/20E-22N1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 248'



**SAUCELITO IRRIGATION DISTRICT (5-22.32)**  
**WELL 22S/26E-15J1, M.D.B. & M.**  
 GROUND SURFACE ELEVATION 371'

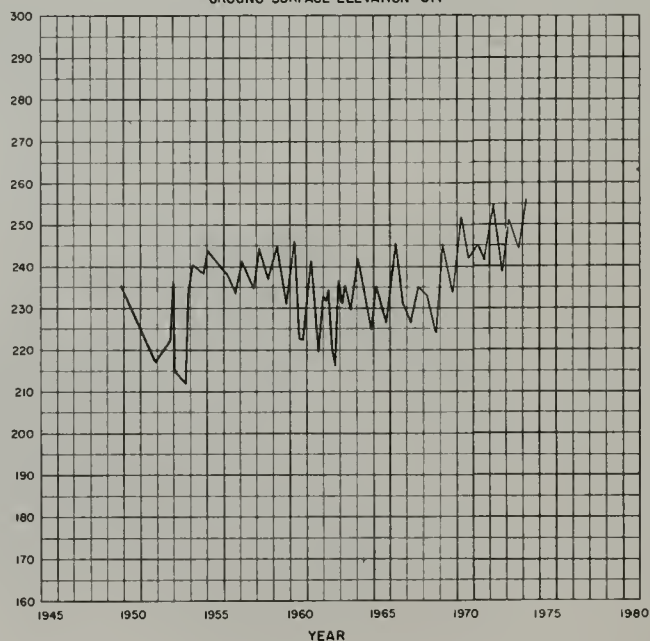


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

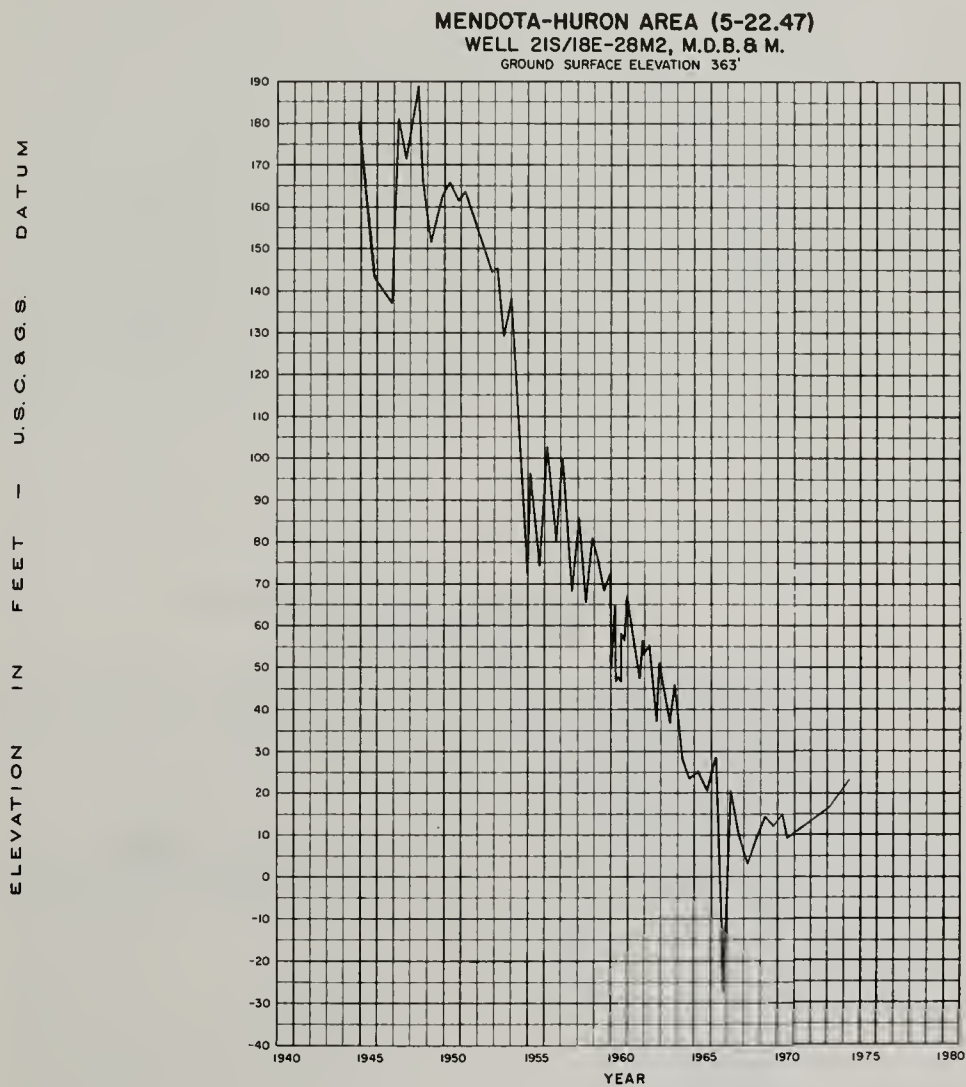
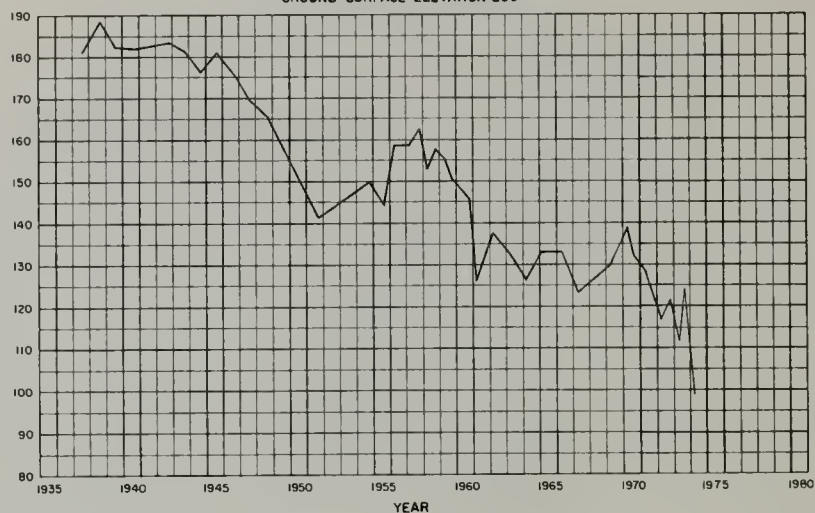


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C.&G.S. DATUM

**FRESNO SLOUGH AREA (5-22.17)**  
**WELL 17S/18E-23A2, M.D.B.&M.**  
 GROUND SURFACE ELEVATION 200'



**EXETER IRRIGATION DISTRICT (5-22.26)**  
**WELL 18S/27E-29D1, M.D.B.&M.**  
 GROUND SURFACE ELEVATION 447'

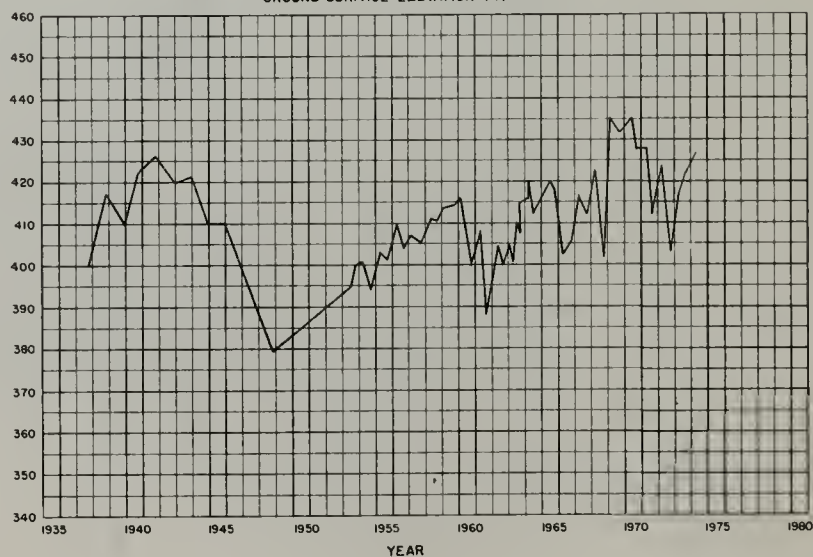
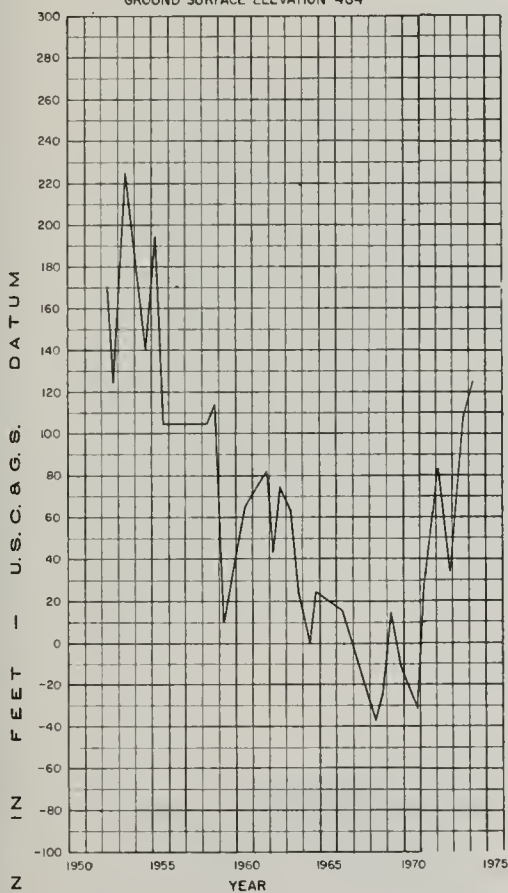


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**EDISON-MARICOPA AREA (5-22.41)**

**WELL 11N/21W-1N1, S.B.B. & M.**

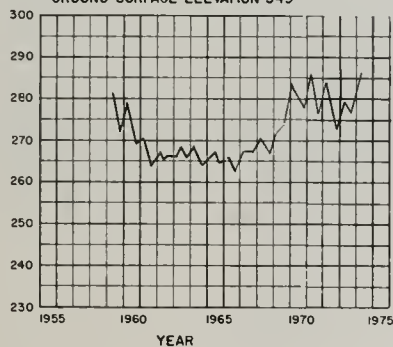
GROUND SURFACE ELEVATION 464'



**IVANHOE IRRIGATION DISTRICT (5-22.23)**

**WELL 17S/25E-35M1, M.D.B. & M.**

GROUND SURFACE ELEVATION 349'

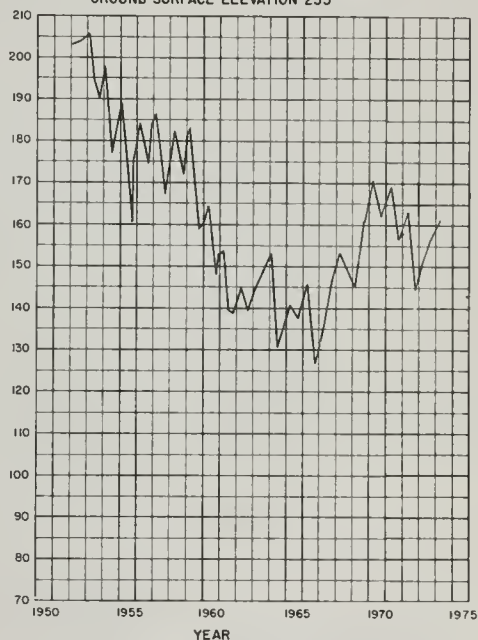


**KAWEAH DELTA**

**WATER CONSERVATION DISTRICT (5-22.24)**

**WELL 19S/22E-19A2, M.D.B. & M.**

GROUND SURFACE ELEVATION 235'



**TULARE IRRIGATION DISTRICT (5-22.25)**

**WELL 20S/23E-10J1, M.D.B. & M.**

GROUND SURFACE ELEVATION 248'

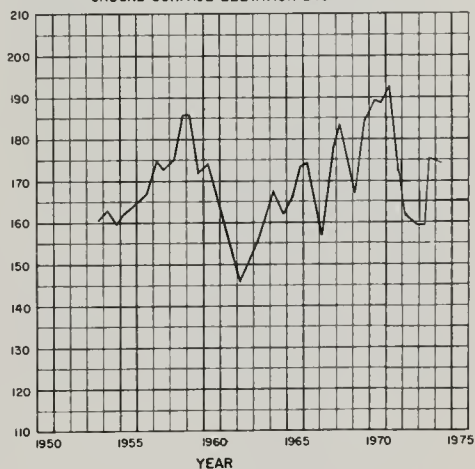
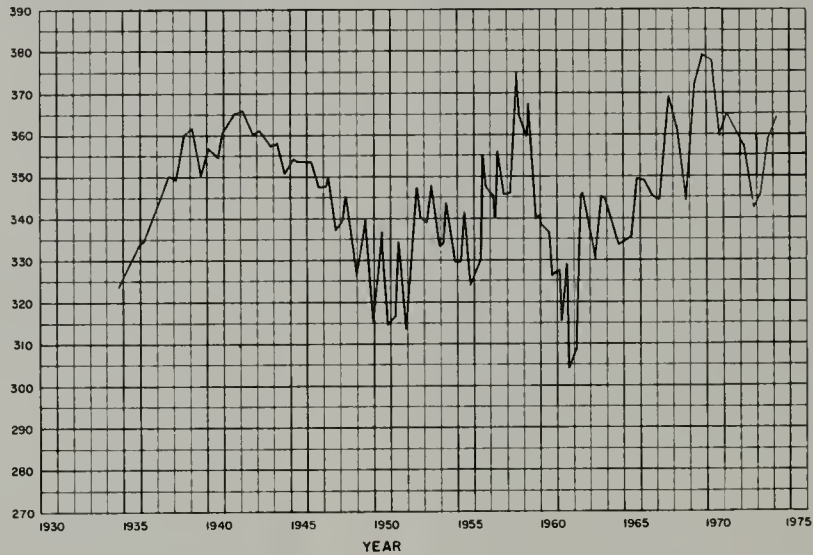


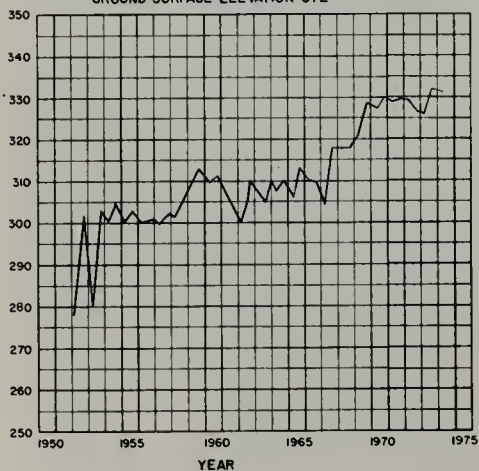
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C.&G.S. DATUM

**ALTA IRRIGATION DISTRICT (5-22.19)**  
**WELL 15S/24E-22D1, M.D.B.&M.**  
 GROUND SURFACE ELEVATION 388'



**LINDSAY-STRATHMORE**  
**IRRIGATION DISTRICT (5-22.27)**  
**WELL 20S/27E-6B1, M.D.B.&M.**  
 GROUND SURFACE ELEVATION 372'



**ORANGE COVE**  
**IRRIGATION DISTRICT (5-22.21)**  
**WELL 16S/25E-4C2, M.D.B.&M.**  
 GROUND SURFACE ELEVATION 415'

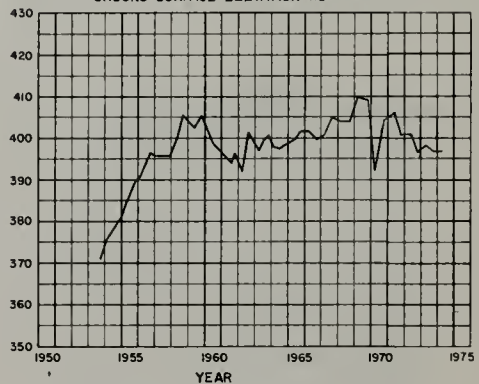


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

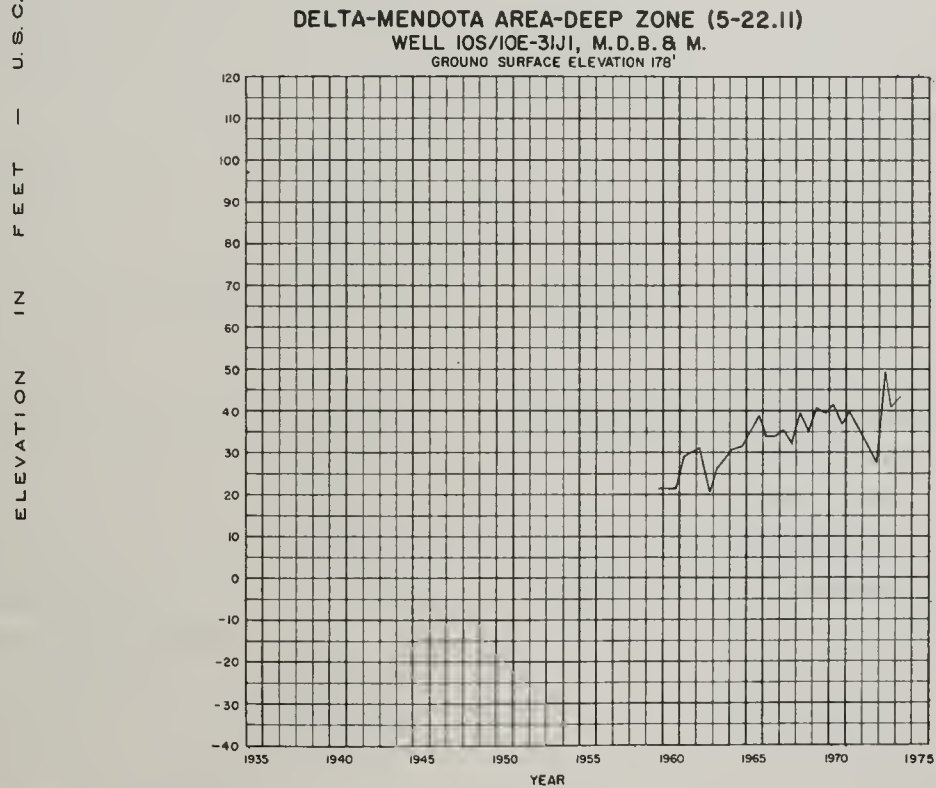
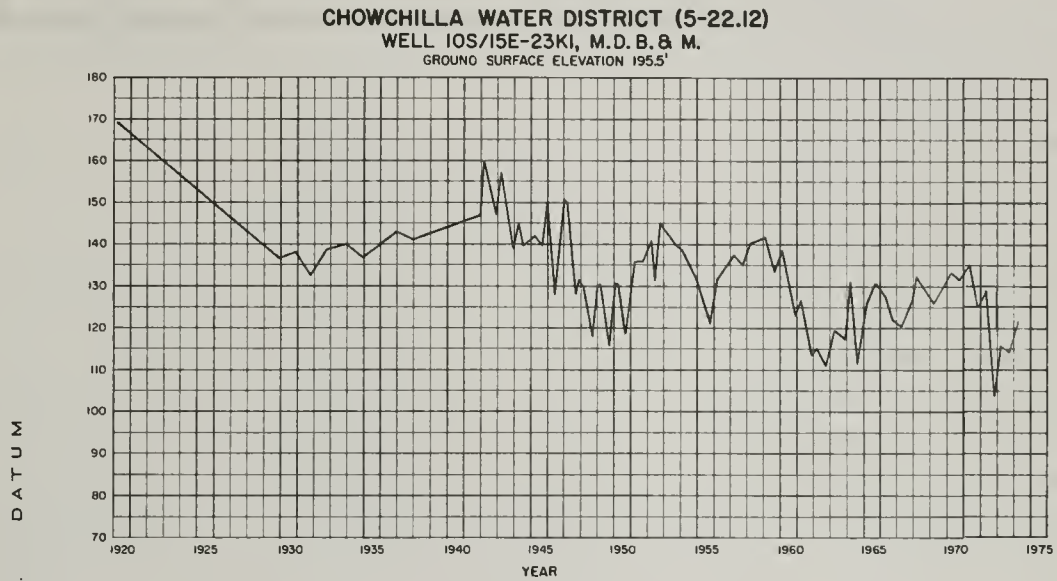


TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL  
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY  
Spring 1973 - Spring 1974

Ground Water Districts or Areas		Number of Wells Considered in Analysis <sup>a/</sup>	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		+ 1.4
Modesto Irrigation District	5-22.07		- 0.1
Turlock Irrigation District	5-22.08		- 1.0
Merced Irrigation District	5-22.09		0.0
El Nido Irrigation District	5-22.10		+ 2.9
Delta-Mendota Area	5-22.11	257	0.0
Chowchilla Water District	5-22.12		+ 4.0
Madera Irrigation District	5-22.13		+ 4.0
West Chowchilla-Madera Area	5-22.14		+ 2.2
Fresno Irrigation District	5-22.15		+ 4.7
City of Fresno	5-22.16	60	+ 0.1
Fresno Slough Area	5-22.17		- 2.7
Consolidated Irrigation District	5-22.18		+ 5.3
Alta Irrigation District	5-22.19		+ 7.4
Lower Kings River Area	5-22.20		
Shallow Zone			+ 0.6
Deep Zone			+11.9
Orange Cove Irrigation District	5-22.21	63	+ 5.5
Stone Corral Irrigation District	5-22.22	10	+ 3.2
Ivanhoe Irrigation District	5-22.23		+ 8.9
Kaweah-Delta Water Conservation District	5-22.24		+ 8.6
Tulare Irrigation District	5-22.25		+ 9.9
Exeter Irrigation District	5-22.26		+11.2
Lindsay-Strathmore Irrigation District	5-22.27		+ 4.3
Lindmore Irrigation District	5-22.28		+ 7.3
Porterville Irrigation District	5-22.29	16	+ 6.7
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+ 7.1
Deep Zone		Insufficient data to compute change.	
Vandalia Irrigation District	5-22.31	6	+ 2.3
Saucelito Irrigation District	5-22.32		
Shallow Zone			+ 9.5
Deep Zone		Insufficient data to compute change.	
Pixley Irrigation District	5-22.33		
Shallow Zone			+ 3.8
Deep Zone			+ 0.7

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL  
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY  
Spring 1973 - Spring 1974

Ground Water Districts or Areas		Number of Wells Considered in Analysis <sup>a/</sup>	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			-10.7
Deep Zone			-14.5
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+13.1
Deep Zone		Insufficient data to compute change	
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 7.6
Deep Zone			+11.4
North Kern Water Storage District	5-22.37		
Shallow Zone			+10.5
Deep Zone			+11.9
Shafter-Wasco Irrigation District	5-22.38		
Deep Zone			- 4.3
City of Bakersfield	5-22.39	20	- 2.1
Kern River Delta Area	5-22.40		
Shallow Zone			+15.7
Deep Zone			- 1.1
Edison-Maricopa Area	5-22.41		
Deep Zone			- 8.0
Buena Vista Water Storage District	5-22.42		
North Area			+ 8.5
South Area		Insufficient data to compute change	
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 6.2
Deep Zone			+ 1.1
Avenal-McKittrick Area	5-22.44	Insufficient data to compute change	
Tulare Lake-Lost Hills Area	5-22.45	Insufficient data to compute change.	
Corcoran Irrigation District	5-22.46		
Shallow Zone			- 3.4
Deep Zone			+21.1
Mendota-Huron Area	5-22.47		
Deep Zone			+ 6.6
Poso Resources Conservation District	5-22.48		+ 1.2
San Luis Canal Company	5-22.49		+ 4.9

TABLE C-1 (Cont.)  
CHANGE IN AVERAGE GROUND WATER LEVEL  
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY  
Spring 1973-- Spring 1974

Ground Water Districts or Areas		Number of Wells Considered in Analysis <sup>a/</sup>	Change in Feet
Name	Number		

San Joaquin Valley (Continued)

Terra Bella Irrigation District	5-22.50	2	+ 9.6
Merced Bottoms	5-22.54		+ 1.6
Centerville Bottoms Area	5-22.64		+ 2.5
Garfield Water District	5-22.65	11	+ 3.1
Kings County Water District	5-22.66		
Shallow Zone			+ 5.2
Deep Zone			+16.8
Pleasant Valley Area	5-22.69	20	-11.7

<sup>a/</sup> Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM  
1921 TO 1951 AND 1951 TO 1974  
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51 <sup>a/</sup> in feet	Net change in water level 1951-74 <sup>b/</sup> in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 <sup>c/</sup>	-23.8
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	-18.8
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 3.2
Centerville Bottoms	18.1	-----	+ 1.0	- 2.4
Alta	190.9	Alta Irrigation District	- 17.2 <sup>c/</sup>	+ 7.8
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+16.4
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 5.6
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	-11.7
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 7.0
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 4.5
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay- Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+79.6
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+40.7
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	-24.1 <sup>e/</sup> -10.2 <sup>f/</sup>
Middle Deer Creek	54.3	Terra Bella Irrigation District	- 61.8	+ 2.6 <sup>e/</sup> -40.6 <sup>f/</sup>
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+30.7 <sup>e/</sup> +23.8 <sup>g/</sup>
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter- Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	-16.1 <sup>e/</sup> -42.9 <sup>g/</sup>
Rosedale	78.9	-----	- 36.3	-52.9 -21.7 <sup>g/</sup>
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 <sup>d/</sup>	-45.4 <sup>g/</sup>

<sup>a/</sup> 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

<sup>b/</sup> Fall 1951 to spring 1974.

<sup>c/</sup> Fall 1929 to fall 1951.

<sup>d/</sup> Fall 1941 to fall 1951.

<sup>e/</sup> Unconfined aquifer, spring 1961 to spring 1974; only one aquifer reported prior to 1961.

<sup>f/</sup> Change shown for 1951 to 1971; insufficient data in pressure aquifer to compute changes for 1971-74.

<sup>g/</sup> Pressure surface, spring 1961 to spring 1974; only one aquifer reported prior to 1961.

\* These areas are shown on Plate 2.

TABLE C-3

## GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 123.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

- |   |  |   |  |
|---|--|---|--|
| 0 | Unqualified due to lack of well construction and/or geology information. | 4 | Unconfined, outside Corcoran Clay area.                                    |
| 1 | Unconfined, perforated above the Corcoran Clay.                          | 5 | Confined, aquitard other than Corcoran Clay.                               |
| 2 | Confined, perforated below the Corcoran Clay.                            | 6 | Composite, perforated above and below aquitard outside Corcoran Clay area. |
| 3 | Composite, perforated above and below the Corcoran Clay.                 |   |  |

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

## NO MEASUREMENT (NM)

- |   |                          |   |                          |
|---|--------------------------|---|--------------------------|
| 0 | Measurement discontinued | 5 | Unable to locate well    |
| 1 | Pumping                  | 6 | Well has been destroyed  |
| 2 | Pump house locked        | 7 | Special                  |
| 3 | Tape hung up             | 8 | Casing leaking or wet    |
| 4 | Can't get tape in casing | 9 | Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

<u>Agency Code</u>	<u>Agency</u>	<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey	5603	Kaweah Delta Water Conservation District
5001	U. S. Bureau of Reclamation	5604	Tulare Irrigation District
5050	Department of Water Resources	5607	Lindmore Irrigation District
5121	Kern County Water Agency	5608	Porterville Irrigation District
5129	Kings County Water District	5609	Lower Tule Irrigation District
5200	City of Fresno	5620	James Irrigation District
5520	Oakdale Irrigation District	5631	Fresno Irrigation District
5521	Modesto Irrigation District	5636	Consolidated Irrigation District
5524	Turlock Irrigation District	5637	Alta Irrigation District
5525	Merced Irrigation District	5640	Buena Vista Water Storage District
5527	El Nido Irrigation District	5644	Arvin-Edison Water Storage District
5528	Chowchilla Water District		
5529	Poso Resources Conservation District		

**TABLE C-3 (Cont.)**  
**GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
OAKDALE I.D.						5-22.06	TURLOCK I.D.						5-22.08
015/09E-16J01 M		119.0	3-00-74	65.0	54.0	5520	06S/10E-21A01 M		85.6	3-00-74	3.5	82.1	5524
015/09E-36A01 M		145.0	3-00-74	55.1	89.9	5520	06S/10E-28D01 M		83.6	3-00-74	8.4	75.2	5524
015/10E-19L01 M		146.5	3-00-74	57.4	89.1	5520	06S/11E-06N01 M		106.2	3-00-74	9.5	96.7	5524
015/10E-28J01 M		193.0	3-00-74	85.8	107.2	5520	06S/11E-08R01 M		116.2	3-00-74	11.3	104.9	5524
025/09E-26F01 M		132.0	3-00-74	52.3	79.7	5520	MERCED I.D.						5-22-09
025/10E-04H01 M		185.5	3-00-74	77.2	108.3	5520	06S/12E-22N01 M	1	150.8	10-15-73 3-01-74	15.0 15.3	135.8 135.5	5050
025/10E-33J01 M		165.0	3-00-74	59.0	106.0	5520	06S/14E-32N01 M	1	178.1	3-05-74	8.2	169.9	5525
025/11E-29B01 M		218.0	3-00-74	90.0	128.0	5520	07S/10E-01N01 M	1	90.7	3-04-74	9.4	81.3	5525
025/11E-31N01 M		192.0	3-00-74	73.3	118.7	5520	07S/11E-01H01 M		118.0	10-15-73 3-19-74	13.1 14.0	104.9 104.0	5050
025/12E-31K01 M		190.0	3-00-74	41.0	149.0	5520	07S/11E-13N01 M	1	106.6	3-01-74	7.4	99.2	5525
035/10E-15A01 M		152.0	3-00-74	45.2	106.8	5520	07S/12E-12D01 M	1	144.0	10-15-73 3-01-74	NM-5 15.3	128.2	5050
035/11E-18D01 M		162.0	3-00-74	54.3	107.7	5520	07S/12E-12R01 M	1	147.3	3-01-74	DRY		5525
MODESTO I.D.						5-22.07	07S/13E-26G01 M	1	155.5	10-15-73 3-01-74	9.5 12.1	146.0 143.4	5050
025/08E-25P01 M		94.0	3-03-74	33.3	60.7	5521	07S/14E-11N01 M	1	191.8	10-15-73 3-05-74	12.5 14.5	179.3 177.3	5050
025/09E-30F01 M		93.0	10-16-73 4-10-74	26.0 27.5	67.0 65.5	5050	07S/14E-16R01 M	1	187.5	3-04-74	16.5	171.0	5525
025/09E-31G01 M		100.3	3-03-74	30.5	66.5	5521	08S/12E-01O01 M	1	120.1	3-01-74	8.4	111.7	5525
035/07E-12C01 M		47.0	10-16-73 4-10-74	8.2 9.0	38.8 38.0	5050	08S/13E-09R01 M	1	135.0	3-01-74	4.8	130.2	5525
035/07E-35A02 M		40.0	10-16-73 4-10-74	3.0 5.8	37.0 34.2	5050	08S/14E-01A01 M	1	197.5	3-01-74	NM-7		5525
035/08E-03N01 M		65.0	3-00-74	19.4	45.6	5521	08S/14E-10N01 M	1	172.6	10-15-73 3-01-74	5.5 7.4	167.1 165.2	5050
035/08E-24C02 M		73.0	3-04-74	18.8	54.2	5521	EL NIDO I.D.						5-22.10
035/09E-08O01 M		92.0	3-04-74	27.3	64.7	5521	09S/13E-14H01 M		133.0	11-02-73 2-06-74	86.8 92.3	46.2 40.7	5527
035/09E-11M01 M		99.0	3-04-74	20.7	78.3	5521	09S/14E-20B01 M		152.0	11-02-73 2-06-74	73.2 65.7	78.8 86.3	5527
035/09E-26F01 M		100.0	4-09-74	NM-5		5050	DELTA-MENDOTA AREA						5-22.11
035/10E-06G01 M		133.1	3-04-74	35.7	97.4	5521	04S/06E-04N01 M	2	196.0	10-04-73 3-19-74	167.5 144.9	28.5 51.1	5050
035/10E-29K01 M		118.0	3-04-74	46.9	71.1	5521	04S/06E-09R01 M	1	166.3	10-18-73 3-19-74	132.0 125.5	34.3 40.8	5001
035/10E-32G01 M		120.0	3-04-74	56.4	63.6	5521	04S/07E-27M01 M	1	68.0	10-18-73 3-20-74	30.8 25.0	37.2 43.0	5001
035/10E-34D01 M		125.0	4-11-74	59.0	66.0	5050	05S/07E-14D01 M	1	130.4	10-17-73 3-21-74	84.8 81.8	45.6 48.6	5001
04S/08E-03F01 M		60.0	3-04-74	14.0	46.0	5521	05S/07E-23L01 M		138.0	10-17-73 3-21-74	82.5 82.3	55.5 55.7	5050
TURLOCK I.D.						5-22.08	05S/08E-32K01 M	1	90.9	10-17-73 3-22-74	7.3 8.8	83.6 82.1	5001
04S/08E-22R01 M	1	55.0	10-16-73 4-10-74	10.3 11.5	44.7 43.5	5050	06S/07E-12P01 M		248.3	10-02-73 4-08-74	15.0 16.0	233.3 232.3	5050
04S/08E-27D01 M		55.0	3-00-74	10.5	44.5	5524	06S/08E-21R02 M	2	133.5	10-02-73 4-08-74	57.0 NM-1	76.5	5050
04S/09E-21N01 M		75.0	3-00-74	8.2	66.8	5524	06S/08E-27J01	1	114.5	10-02-73 4-08-74	49.0 43.0	65.5 71.5	5050
04S/10E-21R01 M	1	109.0	3-00-74	7.8	101.2	5524	06S/08E-29J01 M	2	190.0	10-02-73 4-08-74	100.0 98.0	90.0 92.0	5050
04S/11E-29N01 M	1	131.0	3-00-74	DRY		5524	07S/08E-22L01 M	1	127.9	10-03-73 4-08-74	NM-3 46.0	84.6	5050
04S/11E-31R01 M		128.0	3-00-74	12.8	115.2	5524	07S/09E-04R01 M	1	65.5	10-03-73 4-09-74	15.0 11.0	50.5 54.5	5050
05S/08E-01N01 M		53.0	3-00-74	4.4	48.6	5524	07S/09E-26N01 M	1	68.4	10-03-73 4-11-74	9.0 3.0	59.4 65.4	5050
05S/08E-10A01 M		44.0	3-00-74	12.1	31.9	5524	08S/08E-01N01 M	1	123.2	10-03-73 4-10-74	19.0 NM-7	104.2	5050
05S/09E-04A01 M		70.0	10-16-73 4-10-74	5.6 7.5	65.4 62.5	5050	08S/08E-15J01 M	2	172.8	10-03-73 4-10-74	23.0 25.0	149.8 147.8	5050
05S/09E-14R01 M		75.0	3-00-74	6.2	68.8	5524	08S/09E-26H01 M	2	75.0	10-04-73 4-11-74	38.0 37.0	37.0 38.0	5050
05S/09E-24N01 M		75.0	3-00-74	7.4	67.6	5524	08S/09E-26H03 M	1	75.0	10-04-73 4-11-74	7.0 7.5	68.0 67.5	5050
05S/09E-28A01 M		63.0	3-00-74	4.0	59.0	5524	08S/10E-21L04 M		75.0	4-11-74	NM-7		5050
05S/09E-34J01 M		64.0	10-16-73 4-10-74	8.0 10.4	56.0 53.6	5050	09S/08E-24A01 M	1	157.0	10-05-73 4-10-74	11.0 13.0	146.0 144.0	5050
05S/10E-19R01 M		82.0	3-00-74	5.2	76.8	5524							
05S/10E-21R01 M		92.0	3-00-74	10.1	81.9	5524							
05S/11E-06J02 M	1	124.0	10-15-73 4-08-74	8.4 6.5	115.6 117.5	5050							
05S/11E-21N01 M		125.0	3-00-74	9.3	115.7	5524							
05S/11E-30A01 M		117.0	3-00-74	11.4	105.6	5524							
05S/11E-33N01 M		115.5	3-00-74	7.9	107.6	5524							
06S/09E-15R01 M		60.0	3-00-74	3.6	56.4	5524							

**TABLE C-3 (Cont.)**  
**GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA						5-22.11	MADERA I.D.						5-22.13
09S/09E-14N01 M		96.0	10-04-73 4-11-74	56.0 NM-9	40.0	5050	11S/16E-10N01 M		204.0	10-12-73 2-08-74	73.7 69.8	130.3 134.2	5001
09S/09E-18N01 M	2	153.6	10-05-73 4-11-74	24.0 31.0	129.6 122.6	5050	11S/17E-27C01 M	1	250.0	10-11-73 2-07-74	74.9 73.3	175.1 176.7	5001
09S/09E-23L01 M	2	100.0	10-04-73 4-10-74	67.0 48.0	33.0 52.0	5050	11S/18E-20N01 M	1	272.5	10-04-73 2-04-74	86.1 69.6	186.4 202.9	5001
09S/10E-19B01 M	3	84.0	10-05-73 4-10-74	1.0 1.0	83.0 83.0	5050	11S/18E-27M01 M	1	284.0	10-04-73 2-04-74	83.1 80.8	200.9 203.2	5001
09S/10E-23J01 M	2	87.0	10-05-73 4-10-74	NM-7 36.0	51.0	5050	12S/16E-23A01 M		205.0	10-10-73 2-05-74	94.3 78.5	110.7 126.5	5001
09S/11E-16H01 M	3	91.0	10-04-73 4-10-74	NM-4 NM-0		5050	12S/17E-08G01 M		230.0	10-10-73 2-07-74	89.4 81.8	140.6 148.2	5001
09S/11E-20J01 M	2	90.5	10-04-73 4-10-74	45.0 NM-0	45.5	5050	12S/17E-21H01 M	1	228.0	10-10-73 2-07-74	72.5 67.6	155.5 160.4	5001
10S/10E-02R01 M	1	99.5	10-03-73 4-10-74	20.0 12.0	79.5 87.5	5050	12S/17E-26C01 M		233.0	10-10-73 2-07-74	63.3 58.7	169.7 174.3	5001
10S/10E-31G01 M	2	191.1	10-03-73 4-12-74	157.0 159.0	34.1 32.1	5050	12S/17E-34R01 M		234.0	10-10-73 2-07-74	53.4 50.4	180.6 183.6	5001
10S/10E-32N01 M	1	189.5	10-03-73 4-12-74	76.0 75.0	113.5 114.5	5050	12S/18E-13R01 M		288.0	10-05-73 2-05-74	83.0 79.9	205.0 208.1	5001
10S/11E-27E02 M	2	101.3	10-02-73 4-08-74	60.0 55.0	41.3 46.3	5050	12S/18E-21G01 M	1	265.0	10-09-73 2-06-74	76.9 70.6	188.1 194.4	5001
11S/10E-11J01 M	1	157.3	10-02-73 4-08-74	20.0 20.0	137.3 137.3	5050	12S/18E-21H01 M		267.0	10-09-73 2-06-74	74.0 69.2	193.0 197.8	5001
11S/10E-22Q01 M		246.8	10-03-73 4-09-74	100.0 97.0	146.8 149.8	5050	12S/19E-28A01 M	4	307.5	10-01-73 2-05-74	91.0 88.1	216.5 219.4	5001
11S/11E-02J02 M	1	106.0	10-02-73 4-08-74	3.0 2.0	103.0 104.0	5050	WEST CHOWCHILLA-MADERA AREA						5-22.14
11S/11E-22Q03 M	3	114.0	10-02-73 4-08-74	10.0 12.0	104.0 102.0	5050	10S/13E-22R01 M		119.0	10-12-73 2-04-74	27.7 25.8	91.3 93.2	5001
11S/12E-31C01 M	2	132.0	10-02-73	NM-5		5050	10S/14E-08B03 M		147.0	10-12-73 2-08-74	97.8 86.8	49.2 60.2	5001
12S/12E-06D01 M		144.0	10-02-73 3-14-74	6.5 5.6	137.5 138.4	5001	10S/14E-31H01 M		130.0	10-12-73 2-07-74	48.2 41.0	81.8 89.0	5001
12S/12E-25J01 M		181.0	10-03-73 3-15-74	7.2 3.9	173.9 177.2	5001	10S/14E-35F01 M		151.0	10-12-73 2-04-74	91.9 79.9	59.1 71.1	5001
12S/13E-10N01 M		144.0	2-06-74	NM-0		5050	11S/14E-13R01 M		150.0	10-16-73 2-04-74	70.2 54.3	79.8 95.7	5001
CHOWCHILLA W.D.						5-22.12	11S/15E-33E01 M		156.0	10-16-73 2-07-74	69.0 54.3	87.0 101.7	5001
09S/14E-25R01 M	1	185.0	10-12-73 2-06-74	71.0 68.4	114.0 116.6	5001	11S/15E-33P01 M		158.0	10-16-73 2-07-74	67.0 50.9	91.0 107.1	5001
09S/15E-25J02 M	1	230.0	10-12-73 2-06-74	39.4 44.0	190.6 186.0	5001	12S/15E-14L01 M	1	165.1	10-15-73 2-08-74	86.0 62.9	81.0 104.1	5001
09S/15E-27A01 M		216.5	10-15-73 3-21-74	136.0 110.0	80.5 106.5	5001	13S/16E-02C01 M		194.0	10-09-73 2-05-74	87.8 69.7	106.2 124.3	5001
09S/16E-22R01 M		267.0	10-15-73 2-05-74	45.0 46.6	222.0 220.4	5001	FRESNO I.D.						5-22.15
09S/17E-19L01 M	1	292.0	10-15-73 2-05-74	111.5 92.3	180.5 199.7	5528	12S/20E-14A01 M	4	365.0	10-12-73 2-06-74	94.5 88.9	270.5 276.1	5001
09S/17E-35J01 M		320.0	10-10-73	NM-0		5001	12S/21E-34D01 M	4	387.7	3-04-74	43.4	344.3	5631
09S/18E-33Q01 M	4	362.0	10-10-73 2-11-74	54.5 54.6	307.5 307.4	5001	12S/22E-21E01 M	4	473.0	10-10-73 2-11-74	NM-9 NM-9		5001
10S/14E-01A01 M		179.0	10-11-73 2-07-74	78.0 76.7	101.0 102.3	5001	13S/17E-22B01 M	4	220.8	3-04-74	39.6	181.2	5631
10S/14E-01R02 M		177.0	10-11-73 2-07-74	76.8 76.0	100.2 101.0	5528	13S/17E-33D01 M		211.0	10-19-73 2-04-74	57.2 53.8	153.8 157.2	5001
10S/14E-24R01 M		167.0	10-10-73 2-11-74	91.5 81.5	75.5 85.5	5001	13S/18E-10P01 M		258.0	10-17-73 2-05-74	48.0 48.4	210.0 209.6	5001
10S/15E-02Q01 M		212.5	10-11-73 2-08-74	116.2 94.0	96.3 118.5	5001	13S/18E-34D01 M		245.0	10-19-73 2-05-74	54.1 54.3	190.9 190.7	5001
10S/15E-23K01 M		195.5	10-10-73 2-08-74	85.9 73.5	109.6 122.0	5001	13S/19E-09Q01 M	4	288.2	3-01-74	69.6	218.6	5001
10S/15E-27D03 M		184.0	10-10-73 2-11-74	93.0 74.0	91.0 110.0	5001	13S/19E-16K01 M		290.0	10-12-73 2-05-74	97.5 74.0	192.5 216.0	5001
10S/16E-09E01 M		232.0	10-16-73 2-04-74	100.1 96.1	131.9 135.9	5001	13S/20E-02L01 M		339.0	3-01-74	NM-0		5631
10S/16E-29R01 M	1	208.0	10-09-73 2-04-74	92.0 90.5	116.0 117.5	5001	13S/23E-31P01 M	4	406.5	3-04-74	31.5	375.0	5631
MADERA I.D.						5-22.13	14S/18E-08J01 M	4	227.4	3-04-74	70.0	157.4	5631
10S/19E-16D01 M	4	387.0	10-09-73 2-12-74	18.4 19.0	371.6 371.0	5001	14S/19E-20B02 M	4	245.0	3-04-74	45.7	199.3	5631
11S/16E-06A01 M		196.0	10-12-73 2-08-74	78.1 67.8	117.9 128.2	5001	14S/20E-06J01 M	1	279.4	3-04-74	63.2	216.2	5631

# GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO I.D.							ALTA I.D.						
15S/20E-13E02 M		282.5	3-05-74	34.1	248.4	5631	16S/25E-29A01 M	4	364.0	11-03-73 3-04-74	35.5 29.5	328.5 334.5	5637
CITY OF FRESNO							5-22.19						
13S/20E-21J01 M		310.0	4-01-74	94.5	215.5	5200	17S/22E-25A01 M	4	275.0	11-01-73 3-03-74	48.8 39.2	226.2 235.8	5637
13S/20E-23B01 M		325.0	4-01-74	91.0	234.0	5200	17S/22E-25J01 M	4	275.0	11-01-73 3-03-74	47.8 37.0	227.2 238.0	5637
13S/20E-28E01 M		299.3	10-03-73 4-01-74	84.4 88.0	201.9 211.3	5200	17S/24E-15A03 M		302.0	10-04-73 1-30-74	28.9 23.3	273.1 278.7	5001
13S/20E-35M02 M		305.3	4-01-74	89.0	216.3	5200	17S/25E-10C01 M	4	335.0	11-03-73 3-01-74	34.8 32.7	300.2 302.3	5637
14S/20E-10M01 M		291.4	10-03-73 4-01-74	73.4 74.5	218.0 216.9	5200	17S/25E-18R01 M	4	321.0	11-02-73 3-01-74	53.7 50.7	267.3 270.3	5637
FRESNO SLOUGH AREA							5-22.17						
14S/15E-25M02 M		160.0	10-02-73 2-07-74	31.9 19.2	128.1 140.8	5001	LOWER KINGS RIVER AREA						
14S/16E-03C01 M		177.0	10-03-73 2-07-74	73.3 69.5	103.7 107.5	5001	17S/19E-14J01 M		217.0	10-17-73 3-11-74	84.0 98.0	133.0 119.0	5050
14S/16E-08O01 M		165.0	10-03-73 2-07-74	NM-1 36.6	128.4	5001	17S/20E-20D01 M	1	223.0	10-17-73 3-11-74	NM-7 80.0	143.0	5050
14S/16E-22N01 M	1	164.0	10-02-73 2-07-74	32.6 27.7	131.4 136.3	5001	17S/21E-11K01 M		257.0	10-17-73 3-12-74	40.0 32.0	217.0 225.0	5050
14S/17E-25A01 M	1	210.0	10-04-73 2-01-74	127.7 115.7	82.3 94.3	5001	18S/19E-35J02 M	3	211.0	10-17-73 3-14-74	154.0 120.0	57.0 91.0	5050
15S/16E-12C03 M		169.5	10-09-73 2-01-74	42.5 41.7	127.0 127.8	5620	18S/20E-16A01 M	1	230.0	10-17-73 3-15-74	NM-4 NM-1		5050
15S/17E-22R01 M	1	185.0	10-05-73 2-06-74	92.3 89.4	92.7 95.6	5001	18S/21E-10R01 M		254.0	10-17-73 1-30-74	68.0 61.9	186.0 192.1	5050
15S/18E-07A02 M		204.0	10-04-73 2-01-74	NM-5 NM-5		5001	19S/19E-25A01 M	1	208.0	10-17-73 3-12-74	4.5 1.6	203.5 206.4	5050
16S/18E-03J01 M		206.0	10-17-73 3-07-74	143.0 150.0	63.0 56.0	5050	ORANGE COVE I.D.						
16S/18E-31P01 M		195.0	3-07-74	147.0	48.0	5050	14S/24E-29C02 M	4	430.5	10-04-73 2-04-74	NM-1 40.5	390.0	5001
16S/19E-34P01 M		220.0	10-17-73 3-07-74	119.0 110.0	101.0 110.0	5050	14S/25E-30D01 M	1	510.0	10-01-73 1-28-74	24.0 23.5	486.0 486.5	5001
17S/17E-12N01 M	1	199.0	10-17-73 2-05-74	160.0 172.0	39.0 27.0	5050	15S/24E-14K01 M	4	415.0	10-04-73 2-04-74	29.3 26.0	385.7 389.0	5001
17S/18E-23A02 M	1	200.0	10-17-73 3-07-74	76.5 101.0	123.5 99.0	5050	16S/25E-04C02 M	4	415.0	10-05-73 2-04-74	13.0 13.1	402.0 401.9	5001
CONSOLIDATED I.D.							5-22.21						
14S/22E-22N01 M	4	355.7	11-01-73 3-00-74	29.4 29.0	326.3 326.7	5636	STONE CORRAL I.D.						
15S/19E-24N01 M	4	246.6	11-01-73 3-00-74	83.0 77.6	162.7 167.4	5636	17S/25E-01D01 M	1	355.0	11-03-73 3-01-74	NM-1 NM-1		5637
15S/20E-28A01 M		264.0	3-00-74	48.8	215.2	5636	17S/26E-07R01 M		364.0	2-05-74	11.2	352.8	5001
15S/21E-15D01 M	4	301.2	11-01-73 3-00-74	28.2 25.9	273.0 275.3	5636	IVANHOE I.O.						
15S/22E-16A01 M	4	337.0	11-01-73 3-00-74	27.0 27.3	310.0 309.7	5636	17S/25E-27R01 M	4	350.0	10-02-73 2-04-74	80.6 76.4	269.4 273.6	5001
15S/22E-29D01 M	4	321.9	11-01-73 3-00-74	28.7 27.7	293.2 294.2	5636	17S/25E-35M01 M	4	349.0	10-02-73 2-04-74	73.3 62.5	275.7 286.5	5001
16S/19E-14A01 M	4	235.0	11-01-73 3-00-74	103.6 98.8	131.4 136.2	5636	17S/25E-36G01 M	4	365.0	10-02-73 2-04-74	65.2 60.0	299.8 305.0	5001
16S/20E-22N01 M	4	248.0	11-01-73 3-00-74	62.8 60.3	185.2 187.7	5636	17S/26E-32N01 M	4	385.0	10-02-73 2-04-74	63.0 59.0	322.0 326.0	5001
16S/21E-22N01 M	4	271.0	11-01-73 3-00-74	45.4 43.1	225.6 227.9	5636	17S/26E-34D01 M	4	416.0	10-02-73 2-04-74	63.5 58.0	352.5 358.0	5001
16S/22E-23R01 M	4	297.0	11-01-73 3-00-74	23.2 22.4	273.8 274.6	5636	KAWAEM DELTA W.C.O.						
17S/22E-03C01 M	4	286.0	11-01-73 3-00-74	19.0 19.8	267.0 266.2	5636	17S/25E-15P01 M	1	340.0	10-04-73 1-31-74	86.2 74.8	253.8 265.2	5001
ALTA I.D.							17S/26E-17P02 M	1	385.0	10-04-73 1-31-74	18.2 21.7	366.8 363.3	5001
14S/23E-36R01 M	4	391.0	10-31-73 3-01-74	46.4 51.1	344.6 339.9	5637	17S/27E-34P01 M	1	470.0	10-05-73 1-31-74	NM-1 11.5	458.5	5001
14S/24E-31P01 M	4	395.0	10-31-73 3-01-74	43.0 44.0	352.0 351.0	5001	18S/22E-29A01 M		251.0	9-28-73 1-30-74	93.7 NM-6	157.3	5001
15S/23E-23A02 M	4	358.0	10-31-73 3-01-74	45.2 43.3	312.8 314.7	5637	18S/23E-12M01 M		282.5	10-01-73 1-30-74	64.4 49.5	218.1 233.0	5001
15S/24E-22D01 M	4	388.0	11-01-73 3-02-74	28.8 24.3	359.2 363.7	5637	18S/23E-34A01 M		271.0	10-02-73 1-31-74	109.1 91.8	161.9 179.2	5001
16S/23E-23E01 M	4	314.0	11-01-73 3-04-74	24.7 24.0	289.3 290.0	5637	18S/24E-26A01 M	4	312.0	10-01-73 2-07-74	50.0 54.0	262.0 258.0	5001
16S/24E-21J01 M	1	336.0	11-02-73 3-02-74	31.0 29.7	305.0 306.3	5637	18S/25E-12Q01 M	4	363.0	10-03-73 2-01-74	62.0 53.5	301.0 309.5	5001

# TABLE C-3 (Cont.) GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
KAWEAH DELTA W.C.D.							PORTERVILLE I.D.						
5-22.24							5-22.29						
18S/25E-33F01 M	4	338.0	10-10-73 1-28-74	38.0 28.0	300.0 310.0	5001	21S/26E-12A01 M	4	372.0	2-06-74	29.4	342.6	5608
18S/26E-27E01 M	4	390.0	10-03-73 2-01-74	NM-1 23.0	367.0	5001	21S/27E-21C01 M		409.0	10-04-73 2-06-74	19.0 17.2	390.0 391.8	5001
18S/26E-30N01 M		367.0	10-03-73 2-01-74	17.3 20.5	349.7 346.5	5001	21S/27E-28E01 M	4	420.0	10-04-73 2-06-74	NM-1 NM-1		5001
19S/22E-01N02 M	1	245.0	10-05-73 2-07-74	67.5 73.5	177.5 171.5	5001	22S/26E-01J01 M	4	395.0	10-04-73 2-05-74	76.0 75.5	319.0 319.5	5608
19S/22E-36E01 M	1	234.3	9-28-73 1-28-74	75.5 75.0	158.8 159.3	5001	22S/27E-06D01 M	4	397.0	2-05-74	NM-0		5608
19S/25E-07K01 M		320.0	10-02-73 1-31-74	74.8 57.0	243.2 261.0	5001	22S/27E-10A01 M	4	455.0	10-02-73 2-05-74	71.9 NM-3	383.1	5608
19S/26E-34R02 M	1	341.0	9-28-73 1-30-74	81.0 57.2	260.0 283.8	5001	22S/27E-10R01 M	4	467.0	2-05-74	NM-0		5001
20S/22E-10C01 M	1	226.0	2-05-74	85.0	142.0	5001	LOWER TULE RIVER I.O.						
TULARE I.D.							5-22.30						
19S/23E-14R01 M	1	270.0	10-02-73 1-23-74	NM-1 79.0	191.0	5001	21S/23E-22J01 M	1	222.5	10-09-73 2-11-74	70.0 61.0	152.5 161.5	5001
19S/23E-32H01 M	1	250.5	10-02-73 1-23-74	88.0 75.7	162.5 174.8	5001	21S/24E-15H01 M	1	253.0	10-11-73 2-13-74	45.7 44.8	207.3 208.2	5001
19S/24E-16P01 M		290.0	10-02-73 1-23-74	88.0 75.0	202.0 215.0	5001	21S/24E-31D01 M		230.0	10-01-73 2-14-74	66.9 68.2	163.1 161.8	5001
19S/24E-27Q01 M	1	290.0	10-02-73 1-23-74	87.0 66.5	203.0 223.5	5001	21S/24E-35M01 M		251.0	10-01-73 2-14-74	83.9 77.0	167.1 174.0	5001
19S/25E-17A02 M	4	328.0	10-01-73 1-23-74	NM-1 45.0	283.0	5001	21S/25E-08H01 M		285.0	10-11-73 2-06-74	98.6 56.9	187.4 229.1	5001
20S/23E-08B02 M	1	241.0	10-02-73 1-24-74	NM-5 NM-5		5604	21S/26E-06G02 M		322.0	10-09-73 2-07-74	67.2 56.8	254.8 265.2	5001
20S/24E-16H01 M		273.0	10-03-73 1-25-74	100.3 79.0	172.7 194.0	5001	21S/26E-10E01 M		350.0	10-05-73 2-08-74	46.0 40.9	304.0 309.1	5001
20S/24E-30J02 M	1	250.0	10-03-73 1-25-74	97.7 85.5	152.3 164.5	5001	22S/24E-09A01 M		245.0	10-03-73 2-12-74	125.9 122.1	119.1 122.9	5001
21S/23E-05R01 M	1	222.0	10-02-73 1-24-74	73.9 67.5	148.1 154.5	5001	22S/24E-15A01 M	1	253.0	10-03-73 2-12-74	148.1 122.1	104.9 130.9	5001
EXETER I.O.							22S/25E-10E01 M		296.0	10-04-73 2-12-74	99.0 95.1	197.0 200.9	5001
18S/26E-25K01 M	4	436.0	10-01-73 2-06-74	52.5 46.0	383.5 390.0	5001	22S/25E-15A01 M	1	303.0	10-04-73 2-05-74	127.0 132.8	176.0 170.2	5001
18S/26E-34P02 M	4	391.0	10-01-73 2-06-74	47.0 41.0	344.0 350.0	5001	22S/26E-06A01 M	4	337.0	10-01-73 2-04-74	115.5 104.0	221.5 223.0	5001
18S/27E-29Q01 M	4	447.0	10-01-73 2-06-74	25.1 20.0	421.9 427.0	5001	VANDALIA I.D.						
19S/26E-14E01 M	4	375.0	10-02-73 2-06-74	68.3 60.0	306.7 315.0	5001	22S/28E-07Q01 M		524.0	9-27-73 1-29-74	NM-1 119.1	404.9	5001
19S/26E-23E01 M	4	359.0	10-02-73 2-06-74	68.7 NM-9	290.3	5001	22S/28E-17N01 M		577.0	9-27-73 1-29-74	170.5 132.0	406.5 445.0	5001
LINDSAY-STRATHMORE I.D.							22S/28E-18A01 M		535.0	9-27-73 1-29-74	124.0 104.2	411.0 430.8	5001
19S/27E-29D01 M	4	385.0	10-01-73 2-04-74	44.5 44.1	340.5 340.9	5001	SAUCELITO I.D.						
20S/27E-06B01 M	4	372.0	10-01-73 2-04-74	39.8 41.2	332.2 330.8	5001	22S/26E-15J01 M	4	371.0	9-25-73 2-05-74	127.0 115.0	244.0 256.0	5001
20S/27E-16A01 M	4	426.0	10-01-73 2-04-74	21.8 21.0	404.2 405.0	5001	23S/26E-02R01 M	4	396.0	9-28-73 2-05-74	169.0 151.0	227.0 245.0	5001
20S/27E-21F01 M	4	414.0	10-02-73 2-04-74	25.4 24.4	388.6 389.6	5001	23S/26E-03R01 M		381.0	9-27-73	NM-0		5001
20S/27E-29J01 M	4	406.0	10-02-73 2-04-74	22.4 20.2	383.6 385.8	5001	PIXLEY I.D.						
LINDMORE I.D.							22S/25E-25N01 M		310.0	9-24-73 1-29-74	NM-1 NM-1		5001
20S/26E-01P01 M	4	360.0	10-01-73 2-04-74	48.3 57.2	311.7 302.8	5001	23S/24E-16R01 M		222.0	9-25-73 1-30-74	133.5 123.7	88.5 98.3	5001
20S/26E-22C02 M	4	341.0	10-02-73 2-05-74	70.8 78.9	270.2 262.1	5001	23S/25E-14C01 M	4	300.0	9-24-73 1-31-74	64.0 65.7	236.0 234.3	5001
20S/26E-24K01 M		362.5	10-02-73 2-05-74	43.6 42.0	318.9 320.5	5001	23S/26E-08R01 M		345.0	9-24-73 1-31-74	182.4 170.5	162.6 174.5	5001
20S/26E-32A01 M	4	331.5	10-03-73 10-09-73 2-05-74 2-14-74	79.6 75.4 76.1 75.2	251.9 256.1 255.4 256.3	5607 5609 5607 5609	ALPAUGH-ALLENSWORTH AREA						
20S/27E-29E01 M	4	392.0	10-04-73 2-06-74	NM-1 19.3	372.7	5001	23S/24E-35A02 M		235.0	9-25-73 1-31-74	201.0 149.1	34.0 85.9	5001
PORTERVILLE I.D.							24S/23E-05R02 M		210.0	9-26-73 1-28-74	NM-1 224.4	- 14.4	5001
21S/26E-12A01 M	4	372.0	10-04-73	33.8	338.2	5608	24S/23E-21B02 M		205.0	9-26-73 1-28-74	68.6 81.3	136.4 123.7	5001
							24S/23E-34R01 M	3	205.0	9-26-73 1-28-74	246.2 227.0	- 41.2 - 22.0	5001
							24S/24E-20R01 M		218.0	9-26-73 1-28-74	260.2 205.9	- 42.2 12.1	5001

**TABLE C-3 (Cont.)**  
**GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	
ALPAUGH-ALLENSWORTH AREA							KERN RIVER DELTA AREA							
				5-22.34							5-22.40			
24S/24E-22R01 M		233.0	9-26-73 1-28-74	229.0 170.7	4.0 62.3	5001	29S/25E-12M03 M	2	330.0	10-10-73 2-06-74	NM-5 178.0	152.0	5000	
24S/24E-34P01 M		232.0	9-26-73 1-28-74	101.8 NM-9	130.2	5001	30S/25E-17E01 M		300.6	10-01-73	NM-0		5640	
24S/25E-17P01 M	3	268.0	9-26-73 1-28-74	124.5 102.6	143.5 165.4	5001	30S/25E-22D01 M		308.5	10-01-73 3-00-74	81.6 82.4	226.9 226.1	5640	
DELANO-EARLIMART I.D.				5-22.35			30S/26E-22P02 M	2	338.0	10-15-73 2-11-74	109.5 101.0	228.5 237.0	5000	
23S/25E-26K01 M	1	303.0	9-28-73 2-11-74	164.0 127.0	139.0 176.0	5001	30S/28E-32B01 M	1	353.0	10-02-73 1-29-74	117.7 114.0	235.3 239.0	5001	
23S/26E-29P01 M		357.0	9-26-73 2-14-74	171.5 158.5	185.5 198.5	5001	31S/27E-04J02		340.0	10-08-73 2-11-74	144.0 139.0	196.0 201.0	5050	
23S/27E-27G01 M	4	552.0	9-27-73 1-31-74	NM-1 237.5	314.5	5001	31S/27E-28J01 M	1	312.1	10-03-73 2-04-74	86.5 86.0	225.6 226.1	5121	
24S/25E-10A01 M	3	304.0	9-25-73 2-15-74	126.5 101.5	177.5 202.5	5001	31S/28E-30M01 M	3	314.7	9-27-73 1-31-74	90.0 66.0	224.7 248.7	5050	
24S/25E-33J01 M		292.0	9-26-73 2-15-74	49.5 48.5	242.5 243.5	5001	32S/27E-18E01 M	3	292.6	9-26-73 1-31-74	156.0 132.0	136.6 160.6	5050	
24S/26E-05R01 M	4	376.0	10-01-73 2-12-74	171.0 162.0	205.0 214.0	5001	32S/28E-04B01 M		301.0	9-27-73 1-28-74	59.3 42.3	241.7 258.7	5001	
24S/26E-20H01 M	4	378.0	9-26-73 2-12-74	149.0 129.0	229.0 249.0	5001	EDISON-MARICOPA AREA							5-22.41
24S/26E-29R02 M	1	401.0	9-26-73 2-11-74	133.0 126.0	268.0 275.0	5000	11N/18W-18H01 S	1	726.0	10-03-73	NM-6		5644	
24S/26E-32G01 M	1	397.0	9-25-73 2-11-74	115.0 106.0	282.0 291.0	5001	11N/19W-10A01 S	1	612.0	10-09-73 1-31-74	473.0 471.3	139.0 140.7	5644	
25S/26E-10B03 M	4	430.0	9-24-73 2-11-74	184.5 171.5	245.5 258.5	5001	11N/20W-07Q01 S	3	452.3	9-27-73 2-01-74	296.0 293.0	156.3 159.3	5050	
25S/26E-16P01 M		388.0	9-24-73 1-29-74	88.9 91.3	299.1 296.7	5000	11N/20W-24A01 S		730.2	9-27-73	NM-6		5050	
25S/27E-22H01 M	4	750.0	9-24-73 1-29-74	460.5 474.0	289.5 276.0	5001	11N/21W-05M01 S	3	515.9	9-27-73 1-31-74	NM-4 427.0	88.9	5050	
SOUTHERN SAN JOAQUIN M.U.D.				5-22.36			11N/22W-04H01 S	3	529.0	9-27-73 1-31-74	408.0 405.0	121.0 124.0	5050	
25S/25E-36R02 M		335.0	9-25-73 1-30-74	194.0 159.0	141.0 176.0	5001	29S/29E-33N01 M	4	580.0	9-19-73 1-24-74	433.9 421.0	146.1 159.0	5644	
25S/26E-28H02 M		415.0	9-27-73 1-29-74	171.4 165.0	243.6 250.0	5001	30S/28E-02R01 M	4	410.0	10-03-73 1-29-74	NM-1 243.0	168.0	5001	
26S/26E-16P01 M		443.0	9-27-73 1-28-74	304.0 NM-3	139.0	5001	30S/28E-10N01 M		373.0	10-03-73 1-30-74	58.5 57.8	314.5 315.2	5001	
NORTH KERN W.S.D.				5-22.37			30S/28E-10N04 M		373.0	10-03-73 1-30-74	182.5 191.5	190.5 181.5	5000	
26S/25E-15P01 M	3	348.0	9-27-73	250.0	98.0	5000	30S/29E-05F01 M		515.0	9-19-73 1-30-74	370.4 370.8	144.6 144.2	5644	
26S/25E-15R01 M	3	352.3	1-31-74	237.0	115.3	5050	30S/29E-27A01 M	1	575.0	9-20-73 2-07-74	132.5 126.5	442.5 448.5	5644	
26S/26E-30P01 M	2	392.0	9-27-73	285.0	107.0	5050	30S/30E-20R01 M	4	794.0	9-21-73 2-08-74	NM-7 215.3		5644	
27S/25E-01N01 M	3	394.0	9-27-73 1-30-74	133.0 120.0	261.0 274.0	5000	31S/29E-04P01 M		459.0	9-21-73 2-08-74	328.9 NM-1	130.1	5644	
27S/25E-01N03 M	2	394.0	9-27-73 1-30-74	308.0 262.0	86.0 132.0	5000	31S/29E-29A01 M		400.0	9-26-73 1-29-74	178.6 149.5	221.4 250.5	5001	
27S/26E-20D01 M	1	445.3	9-27-73 1-30-74	340.0 311.0	105.3 134.3	5050	31S/30E-21G01 M	4	536.0	9-26-73 1-29-74	370.8 372.8	165.2 163.2	5644	
27S/27E-30H02 M	4	525.0	9-24-73 1-30-74	471.0 451.8	54.0 73.2	5001	32S/28E-23R01 M		386.0	9-27-73 2-07-74	292.8 260.4	93.2 125.6	5644	
28S/25E-13L01 M	3	361.1	9-26-73	NM-1		5050	32S/29E-19H02 M		416.0	9-28-73 2-04-74	201.5 200.5	214.5 215.5	5000	
28S/26E-21H01 M	3	388.0	9-26-73 1-29-74	187.0 188.0	201.0 200.0	5000	32S/29E-19H03 M		416.0	9-28-73 2-04-74	349.9 301.0	66.1 115.0	5000	
28S/26E-21H03 M	2	388.0	9-26-73 1-29-74	277.0 242.0	111.0 146.0	5000	BUENA VISTA W.S.D.							5-22.42
SHAFTER-WASCO I.D.				5-22.38			27S/22E-21F02 M		240.0	10-17-73 2-01-74	16.0 17.0	224.0 223.0	5121	
27S/24E-01L02 M		322.0	10-01-73 2-04-74	280.0 235.2	42.0 86.8	5000	27S/22E-32H01 M	1	241.0	10-16-73 2-01-74	143.0 NM-7	98.0	5000	
27S/24E-35C01 M	3	321.8	9-25-73	266.5	55.3	5050	28S/22E-09D01 M	3	240.0	10-17-73 2-01-74	13.5 12.0	226.5 228.0	5000	
27S/25E-28A01 M	3	375.0	9-26-73	287.0	88.0	5000	28S/23E-31R01 M		257.8	10-01-73 3-00-74	28.5 25.4	229.3 232.4	5640	
28S/25E-16P01 M		329.0	10-01-73 2-06-74	212.5 NM-8	116.5	5000	29S/23E-08A01 M		259.0	10-01-73 3-00-74	38.3 36.0	220.7 223.0	5640	
KERN RIVER DELTA AREA				5-22.40			29S/23E-27M01 M	1	270.0	10-10-73 2-05-74	52.5 NM-1	217.5	5000	
28S/26E-29L01 M	3	350.0	9-27-73 2-05-74	204.0 189.0	146.0 161.0	5050	30S/23E-01D01 M		276.8	10-01-73 3-00-74	73.2 72.8	203.6 204.0	5640	

**TABLE C-3 (Cont.)  
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
BUENA VISTA W.S.D.							TULARE LAKE-LOST HILLS AREA						
5-22.42							5-22.45						
30S/24E-02C01 M		288.7	10-01-73 3-00-74	102.3 100.6	186.4 188.1	5640	24S/22E-28A02 M		207.0	10-17-73 3-15-74	249.0 NM-9	- 42.0	5050
30S/24E-04C01 M	1	282.0	10-12-73 2-05-74	84.5 83.0	197.5 199.0	5000	24S/22E-35E01 M		213.0	10-17-73 3-14-74	287.0 NM-1	- 74.0	5050
31S/25E-26A01 M		289.0	10-09-73 2-07-74	63.0 65.0	226.0 224.0	5121	25S/21E-30K01 M	1	237.5	10-30-73 2-19-74	35.3 NM-9	202.2	5050
SEMITROPIC W.S.D.							CORCORAN I.D.						
5-22.43							5-22.46						
25S/22E-02N02 M	1	212.0	10-11-73 1-29-74	NM-5 NM-5		5121	20S/22E-35R01 M	1	216.0	10-17-73 3-13-74	65.0 59.0	151.0 157.0	5050
25S/22E-14G01 M		215.0	10-11-73 1-29-74	258.5 188.0	- 43.5 27.0	5121	21S/22E-27A01 M		196.0	10-17-73 3-15-74	10.5 15.0	185.5 181.0	5050
25S/23E-28D01 M	1	217.0	10-12-73 1-30-74	108.0 98.0	109.0 119.0	5121	22S/22E-01B02 M		201.0	10-17-73 3-15-74	7.5 6.0	193.5 195.0	5050
25S/23E-28D03 M	2	217.0	10-12-73 1-30-74	NM-3 NM-3		5121	22S/22E-05L01 M	2	188.0	3-13-74	98.0	90.0	5050
25S/24E-10K01 M	1	240.0	9-24-73 1-28-74	61.7 59.0	178.3 181.0	5001	22S/22E-10A01 M	2	192.0	10-17-73 3-15-74	120.0 100.0	72.0 92.0	5050
25S/24E-15H01 M		248.0	9-24-73 1-28-74	78.3 76.3	169.7 171.7	5001	22S/22E-13P01 M	1	193.0	10-17-73 3-15-74	17.5 18.5	175.5 174.5	5050
25S/24E-30H01 M		238.0	10-12-73 1-30-74	292.5 210.0	- 54.5 28.0	5001	22S/22E-15C01 M	2	191.0	10-17-73 3-13-74	116.0 NM-6	75.0	5050
26S/21E-14J01 M	1	237.0	10-11-73 1-28-74	27.0 27.0	210.0 210.0	5121	22S/22E-22H01 M	2	191.0	10-17-73 3-15-74	124.0 106.0	67.0 85.0	5050
26S/22E-10G02 M	1	225.0	1-31-74	NM-0		5121	MENDOTA-HURON AREA						
26S/23E-02R01 M	2	234.9	10-16-73 1-30-74	NM-4 NM-9		5121	5-22.47						
26S/24E-23H01 M	2	295.5	9-24-73	NM-8		5050	13S/12E-22N01 M	2	280.0	3-15-74	NM-1		5001
27S/23E-01R01 M	1	267.0	10-16-73 1-30-74	98.5 98.0	168.5 169.0	5121	14S/15E-18E02 M		179.5	10-04-73 2-13-74	74.6 165.2	104.9 14.3	5001
27S/23E-01R04 M	2	267.0	10-16-73 1-30-74	274.5 234.0	- 7.5 33.0	5121	15S/14E-15E04 M		235.5	10-05-73 2-13-74	280.8 267.3	- 45.3 - 31.8	5001
27S/23E-01R05 M	2	267.0	10-16-73 1-30-74	272.5 230.0	- 5.5 37.0	5121	15S/15E-22Q01 M		175.0	10-05-73 2-13-74	NM-1 77.5	97.5	5001
27S/23E-06L01 M		258.0	10-12-73 1-31-74	34.0 NM-6	224.0	5121	15S/16E-17L01 M		165.0	10-09-73 2-01-74	34.0 41.7	131.0 123.3	5620
28S/23E-11E01 M		255.0	10-01-73 3-00-74	33.4 33.8	221.6 221.2	5640	15S/16E-28A04 M		168.5	10-09-73 2-01-74	147.2 137.1	21.3 31.4	5620
29S/24E-14R01 M	1	290.0	10-10-73 2-06-74	54.0 57.0	236.0 233.0	5121	17S/14E-13R01 M	1	457.0	2-08-74	733.0	-276.0	5050
AVENAL-MCKITTRICK AREA							17S/16E-24R01 M		232.5	2-07-74	265.0	- 32.5	5050
5-22.44							17S/16E-30A03 M		290.0	10-10-73 2-05-74	63.5 63.4	226.5 226.6	5001
23S/19E-26M01 M	1	267.0	10-29-73 2-19-74	51.0 NM-6	216.0	5050	17S/16E-30A06 M		302.0	10-10-73	NM-0		5001
25S/19E-20Q02 M	1	480.0	10-10-73 1-28-74	110.6 110.0	369.4 370.0	5121	17S/17E-20N01 M	3	228.0	2-05-74	NM-1		5050
25S/20E-04C01 M	1	268.0	10-29-73 2-19-74	53.0 50.0	215.0 218.0	5121	18S/17E-12N01 M	2	253.0	2-05-74	NM-1		5050
26S/18E-19B02 M	1	875.0	10-10-73 1-28-74	164.0 163.0	711.0 712.0	5121	19S/18E-15M01 M	2	274.0	2-06-74	245.0	29.0	5050
28S/22E-20M01 M		290.0	10-30-73 2-19-74	72.0 DRY	218.0	5050	20S/17E-32F01 M		447.0	2-05-74	NM-3		5050
TULARE LAKE-LOST HILLS AREA							20S/18E-11N01 M	3	277.0	2-06-74	319.0	- 42.0	5050
5-22.45							20S/18E-36D01 M		260.0	2-06-74	222.0	38.0	5000
22S/19E-18P02 M	1	255.0	10-29-73 2-19-74	194.0 176.0	61.0 79.0	5050	21S/18E-28M02 M		363.0	2-07-74	340.0	23.0	5050
22S/21E-01J01 M	2	185.5	3-13-74	99.0	86.5	5050	POSO RESOURCES C.D.						
23S/19E-14R01 M	1	235.0	10-29-73 2-19-74	36.0 37.2	199.0 197.8	5050	5-22.48						
24S/20E-21N02 M	1	233.0	2-19-74	NM-9		5050	11S/13E-05Q01 M		117.0	10-05-73 4-11-74	9.0 6.0	108.0 111.0	5529
24S/21E-15J01 M		211.0	3-15-74	18.0	193.0	5050	TERRA BELLA I.D.						
24S/21E-26R01 M		210.0	3-15-74	NM-6		5050	5-22.50						
							22S/27E-25J03 M		532.0	9-26-73 2-05-74	NM-7 96.0	436.0	5001
							23S/27E-01A01 M		506.0	9-28-73	NM-0		5001
							23S/27E-05A01 M	4	450.0	9-28-73 1-31-74	175.9 161.1	274.1 288.9	5001
							MERCED BOTTOMS						
							5-22.54						
							07S/10E-23K01 M		80.0	10-15-73 3-22-74	19.5 4.5	60.5 75.5	5050

**TABLE C-3 (Cont.)  
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MERCED BOTTOMS							5-22.54						
075/10E-23K02 M		80.0	10-15-73 3-22-74	4.3 3.5	75.7 76.5	5050							
075/12E-27F01 M		110.5	10-15-73 3-19-74	15.0 14.5	95.5 96.0	5050							
085/12E-19D01 M		90.0	3-20-74	12.0	78.0	5050							
095/12E-01C01 M	1	110.5	10-15-73 3-22-74	41.0 33.0	69.5 77.5	5050							
095/14E-01B01 M		180.0	10-15-73 3-19-74	92.0 65.0	88.0 115.0	5050							
095/14E-01B02 M		180.0	10-15-73 3-19-74	90.0 62.0	90.0 118.0	5050							
095/14E-01B03 M		180.0	10-15-73 3-19-74	38.0 38.0	142.0 142.0	5050							
095/14E-06D01 M		141.0	10-11-73 3-20-74	44.9 44.0	96.1 97.0	5050							
GARFIELD W.D.							5-22.65						
125/20E-13H01 M	4	387.0	10-09-73 2-04-74	114.4 105.4	272.6 281.6	5001							
125/21E-07A02 M	4	405.5	10-09-73 2-04-74	124.3 121.6	281.2 283.9	5001							
125/21E-18A03 M	4	390.5	10-09-73 2-04-74	91.6 87.6	298.9 302.9	5001							
KINGS COUNTY W.D.							5-22.66						
175/20E-36R02 M	1	243.0	10-01-73 1-30-74	17.9 16.9	225.1 226.1	5129							
175/22E-11P01 M	1	283.0	9-29-73 1-30-74	23.1 19.2	259.9 263.8	5129							
175/22E-35N01 M	1	266.0	9-29-73 1-30-74	52.8 39.9	213.2 226.1	5129							
185/21E-17N01 M	1	238.0	10-01-73 1-30-74	11.4 13.5	226.6 224.5	5129							
185/22E-21H01 M	1	258.0	9-29-73 1-30-74	82.1 79.8	175.9 178.2	5129							
185/22E-36P01 M		245.0	9-29-73 1-30-74	101.5 73.1	143.5 171.9	5129							
185/23E-28B01 M	1	263.0	9-29-73 1-30-74	106.8 81.9	156.2 181.1	5129							
195/21E-20N01 M	1	225.0	9-28-73 1-28-74	11.8 9.9	213.2 215.1	5129							
195/22E-04B01 M	1	245.0	9-29-73 1-28-74	138.8 93.6	106.2 151.4	5129							
195/22E-19A01 M	2	235.0	9-28-73 1-28-74	88.2 74.1	146.8 160.9	5129							
195/22E-23A01 M		240.0	9-28-73 1-28-74	81.9 76.5	158.6 164.0	5129							
205/21E-03A01 M	1	220.0	10-05-73 2-05-74	10.0 11.5	210.0 208.5	5603							
205/21E-05E01 M	2	219.0	9-28-73 1-28-74	138.8 128.2	80.2 90.8	5129							
205/22E-10H02 M	2	225.0	10-04-73 2-06-74	130.2 NM-7	94.8	5129							
PLEASANT VALLEY							5-22.69						
205/15E-25D01 M	1	619.0	2-28-74	DRY		5050							
205/15E-32A01 M	1	675.0	2-28-74	281.0	394.0	5050							
215/16E-02N01 M	1	570.0	2-27-74	NM-1		5050							
215/16E-07N01 M	1	634.0	2-27-74	NM-6		5050							
215/16E-35D01 M	1	682.0	2-27-74	NM-1		5050							



APPENDIX D  
SURFACE WATER QUALITY



APPENDIX D  
SURFACE WATER QUALITY

Introduction

Appendix D summarizes the surface water quality for the San Joaquin Valley for 1974 water year (October 1, 1973, through September 30, 1974). These data were obtained from 81 surface water quality sampling stations.

Laboratory analyses of surface water samples performed by the Department of Water Resources' laboratory reported herein are in accordance with the 13th edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight digit identification number. The first two digits denote the drainage basin as shown below; the remaining digits identify each station.

Hydrographic Area B  
San Joaquin River Basin

B0 San Joaquin Valley Floor  
B3 Stanislaus River  
B4 Tuolumne River  
B5 Merced River  
B6 Fresno-Chowchilla Rivers  
B7 San Joaquin River  
B8 San Joaquin Valley on  
West Side

Hydrographic Area C  
Tulare Lake Drainage Basin

C0 Tulare Lake Valley Floor  
C1 Kings River  
C2 Kaweah River  
C3 Tule River  
C4 Greenhorn Mountains  
C5 Kern River  
C6 Tehachapi Mountains  
C7 Tulare Lake Basin on  
West Side

TABLE D-1  
SAMPLING STATION DATA AND INDEX  
FOR  
SURFACE WATER

Station	Station Identification Number	Location <sup>a</sup>	Period of Record <sup>b</sup>	Frequency of Sampling <sup>c</sup>	Sampled By <sup>d</sup>	Analysis on Page
Bear Creek above Bear Creek Reservoir	B55152.10	6S/16E-22Q	February 1974		DWR	169, 179, 184
Big Creek above Pine Flat Reservoir	C11320.00	11S/25E-4	--	S	DWR	171, 180, 185
Burns Creek at Merced-Mariposa County Line	B56152.50	6S/16E-19D	February 1974		DWR	169, 173, 179, 184
Canal Creek at Oakdale Road	B05166.50	6S/13E-10K	February 1974		DWR	166, 167, 177, 182
Chowchilla River near Raymond	B64200.00	8S/18E-01R	July 1958	S	DWR	170
Deadman Creek at Baxter Road	B06399.50	8S/17E-17M	February 1974		DWR	167, 177, 182
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19Q	July 1952	S	DWR	166
Dutchman Creek at Baxter Road	B06369.50	8S/17E-20N	February 1974		DWR	167, 177, 182
Fresno River near Daulton	B67150.00	10S/19E-03	January 1958	S	DWR	170
Friant-Kern Canal at Friant	B71910.00	11S/21E-05P	March 1974	Q	DWR	170
Kaweah River above Lake Kaweah	C21210.30	17S/28E-34	--	S	DWR	180, 185
Kaweah River at Lemoncove	C02550.30	18S/27E-3	--	S	DWR	179, 184
Kaweah River Middle Fork below No. 2 Intake near Three Rivers	C23147.00	16S/29E-33	--	S	DWR	180, 185
Kaweah River North Fork near Mouth	C22010.30	17S/28E-13	--	S	DWR	180, 185
Kaweah River South Fork above Grouse Creek	C24201.50	18S/29E-16	--	S	DWR	180, 185
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	Q	DWR	170
Kaweah River at Three Rivers	C21250.00	17S/28E-13N	April 1951	S	DWR	171
Kerckhoff Reservoir near Auberry	B71188.00	9S/22E-24P	March 1974	S	DWR	170
Kern River near Bakersfield	C05150.00	28S/29E-33	April 1951	Q	DWR	171
Kern River above Fairview	C51660.10	23S/32E-12	--	S	DWR	180, 185
Kern River at Hart Park	C05160.10	28S/28E-36	--	S	DWR	179, 185
Kern River below Isabella Dam	C51350.00	26S/33E-30E	--	S	DWR	171
Kern River at Kernville	C51500.00	25S/33E-15	--	S	DWR	171, 180, 18
Kern River at Miracle Hot Springs	C51220.10	27S/32E-15	--	S	DWR	180, 185
Kern River at Rancheria Bridge	C05180.10	29S/29E-11	--	S	DWR	179, 185
Kern River South Fork near Weldon	C53110.10	26S/34E-10	--	S	DWR	180, 185
Kings River below North Fork	C11460.00	12S/26E-21	--	S	DWR	171, 180, 18
Kings River below Peoples Weir	C01140.00	17S/22E-01	April 1951	Q	DWR	170
Kings River near Piedra	C11115.50	13S/24E-08B	February 1974		DWR	180, 185
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-02	September 1955	Q	DWR	171
Kings River South Fork at Cedar Grove	C14115.30	13S/30E-1	--	S	DWR	180, 185
Mariposa Creek above Mariposa Reservoir	B62204.10	7S/17E-17A	February 1974		DWR	170, 173, 184
Merced River at Bagby	B51320.00	04S/17-6	November 1952	S	DWR	178, 183
Merced River above Briceburg	B51410.10	03S/18E-25	October 1972	S	DWR	178, 184
Merced River below El Portal	B51517.10	03S/20E-18	October 1972	S	DWR	179, 184
Merced River below Exchequer Dam	B51200.00	04S/15E-13	April 1951	Q	DWR	169
Merced River at Happy Isles Bridge near Yosemite	B51700.00	02S/21E-	--	S	DWR	179, 184

TABLE D-I (Continued)

**SAMPLING STATION DATA AND INDEX  
FOR  
SURFACE WATER**

Station	Station Identification Number	Location <sup>a</sup>	Period of Record <sup>b</sup>	Frequency of Sampling <sup>c</sup>	Sampled By <sup>d</sup>	Analysis on Page
Merced River at junction Big Oak Flat Road and Highway 140	B51519.50	02S/21E-	February 1973	S	DWR	179, 184
Merced River above Lake McClure Reservoir	B51400.00	3S/18E-36B	March 1966		DWR	169
Merced River at Milliken Bridge	B05131.00	06S/09E-36	April 1951	M	DWR	166
Owens Creek above Owens Reservoir	B62020.10	7S/16E-12H	February 1974		DWR	170, 173, 179 184
Salt Slough near Stevinson	B00470.00	08S/10E-10	December 1961	Q	DWR	166, 187
San Joaquin River at Crows Landing Bridge ✓	B07250.00	6S/9E-07A	January 1957		DWR	168
San Joaquin River at Fremont Ford Bridge ✓	B07375.00	07S/09E-24	July 1955		DWR	168, 187
San Joaquin River at Friant Dam ✓	B07885.00	11S/21E-07	April 1951		DWR	168, 182
San Joaquin River near Grayson ✓	B07080.00	04S/07E-25	April 1959	M	DWR	167
San Joaquin River at Maze Road Bridge ✓	B07040.00	03S/07E-33	April 1951	M	DWR	167
San Joaquin River near Mendota ✓	B07710.00	13S/15E-07	April 1951	M	DWR	168
San Joaquin River at North Fork Road Bridge ✓	B07886.50	11S/21E-07H	February 1974		DWR	177, 182
San Joaquin River at Patterson Bridge ✓	B07200.00	5S/8E-15M	February 1958		DWR	168
San Joaquin River below Shakeflat Creek ✓	B71532.50	7S/24E-10	--	S	DWR	179, 184
San Joaquin River South Fork at Mono Hot Springs ✓	B74250.50	7S/27E-10	--	S	DWR	179, 184
San Joaquin River near Vernalis ✓	B07020.00	03S/06E-13	April 1951	M	DWR & USGS	167, 173, 175 177, 182, 187
San Joaquin River above Willow Creek near Auberry ✓	B71340.00	9S/23E-15	--	S	DWR	179, 184
Stanislaus River at Knights Ferry	B03185.00	1S/12E-29	--	S	DWR	166, 177, 182
Stanislaus River at Koetitz Ranch	B03115.00	03S/07E-02	April 1951	M	DWR	166
Stanislaus River above Malones Reservoir	B31340.50	2N/14E-09D	March 1966		DWR	168
Stanislaus River Middle Fork at Beardsley	B33255.00	5N/18E-31	--	S	DWR	168, 178, 183
Stanislaus River Middle Fork at Dardanelle	B33480.10	6N/20E-30	--	S	DWR	168, 178, 183
Stanislaus River North Fork at Calaveras Big Trees State Park	B32110.10	5N/15E-24	--	S	DWR	168, 178, 183
Stanislaus River at Parrotts Ferry Bridge	B31400.50	2N/13E-9	--	S	DWR	168, 177, 182
Stanislaus River below Tulloch Dam	B31158.10	01S/12E-02	August 1956	Q	DWR	168
Tule River North Fork at Bear Creek Road	C32190.10	20S/29E-35	--	S	DWR	180, 185
Tule River South Fork above Crew Creek	C34149.30	22S/29E-4		S	DWR	180, 185
Tule River South Fork of Middle Fork near Springville	C33200.00	20S/30E	--	S	DWR	180, 185
Tule River below Springville	C31929.30	21S/29E-17	--	S	DWR	171, 180, 185
Tule River near Springville	C31150.00	21S/29E-15P	January 1964	S	DWR	171
Tule River below Success Dam	C03196.00	21S/28E-35	July 1956	Q	DWR	170
Tule River at Worth Bridge near Porterville	C03195.00	22S/28E-3	--	S	DWR	179, 184
Tuolumne River above Don Pedro Reservoir	B41265.50	1S/15E-20B	March 1966	S	DWR	169
Tuolumne River above Early Intake	B41680.10	1S/18E-1	--	S	DWR	169, 178, 183
Tuolumne River at Hickman Bridge near Waterford	B04150.00	03S/11E-33	April 1951		DWR	166

TABLE D-I (Continued)

# SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

Station	Station Identification Number	Location <sup>a</sup>	Period of Record <sup>b</sup>	Frequency <sup>c</sup> of Sampling	Sampled By <sup>d</sup>	Analysis on Page
Tuolumne River at La Grange Bridge	B04175.00	03S/14E-20	--		DWR	166, 177, 182
Tuolumne River at Tuolumne City	B04105.00	04S/08E-12	April 1951	M	DWR	166
Tuolumne River at Tuolumne Meadows	B41850.10	1S/24E-3	--	S	DWR	169, 178, 183
Tuolumne River at Wards Ferry Bridge	B41290.10	1S/15E-2	--	S	DWR	169, 178, 183
Woods Creek at County Fairgrounds	B41239.50	2N/14E-36P	October 1973		DWR	169, 178, 183
Woods Creek at Jack Page Road above Sonora	B41241.50	2N/14E-25B	October 1973		DWR	169, 178, 183
Woods Creek below Jamestown Sewage Treatment Plant	B41235.50	1N/14E-15M	October 1973		DWR	168, 178, 183
Woods Creek at Slate Creek	B41232.50	1N/14E-33H	October 1973		DWR	168, 173, 178 183
Woods Creek below Sonora Sewage Treatment Plant	B41238.50	1N/14E-01N	October 1973		DWR	169, 178, 183

- a. Location of sampling stations is shown on Figure B-1.  
b. Beginning of record (-- indicates an irregular period of record).  
c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular.  
d. DWR - Dept. of Water Resources, USGS - U. S. Geological Survey.

TABLE D-2

## MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources' Bryte Laboratory the U. S. Geological Survey's Salt Lake City laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

5647 Tehachapi-Cummings Water District

Definitions of chemical symbols and abbreviations used in this table are as follows:

Chemical Symbols

CA	Calcium	SO <sub>4</sub>	Sulfate
MG	Magnesium	CL	Chloride
NA	Sodium	NO <sub>3</sub>	Nitrate
K	Potassium	F	Fluoride
CO <sub>3</sub>	Carbonate	B	Boron
HCO <sub>3</sub>	Bicarbonate	SiO <sub>2</sub>	Silica

Abbreviations

TEMP	Temperature	DO	Dissolved Oxygen
SAT	Percent Saturation	GH	Gage Height
Q	Flow	FLD	Field Determination
LAB	Laboratory	EC	Specific Electrical Conductance in Micromhos
pH	Measurement of Acidity or Alkalinity of Water	TDS	Total Dissolved Solids
SUM	Summation of Analyzed Constituents	TH	Total Hardness
NCH	Noncarbonate Hardness	TURB	Turbidity in Turbidity Units
SAR	Sodium Adsorption Ratio		

REM Remarks as follows:

- T Total Dissolved Solids and the calculated sum of constituents are not within 20 percent of each other.
- E Total Dissolved Solids value is not within the range of 0.35 to 0.70 of the Specific Electrical Conductance.
- S The anion and cation sums are not within the prescribed tolerance of  $\pm 5$  percent.
- X The field EC and the laboratory EC are not within 20 percent of each other.

TABLE D-2

## MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. DEPTH	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER										MILLIGRAMS PER LITER																																				
						PERCENT REACTION VALUE										A F TDS TH TURB REM										5102																																				
.....																																																														
RD 0470.00 SALT SLOUGH NE STEVENSON																																																														
11/15/73	5050			57.2F	7.5	1200	69	74	192	4.9	n	219	198	237	4.5	.80	--	890	314	22A		X																																								
1030	5050			14.0C	8.1	1520	3.44	2.60	8.35	.13	.00	3.59	4.12	6.68	.07	--	--	848	133	4.7																																										
							23	19	57	1			28	46																																																
03/12/74	5050	22.81	8.8	67	F	7.4	1450	82	42	213	--	n	168	--	244	2.1	1.60	--	1070	380																																										
1515	5050		91	17	C	7.4	1730	4.09	3.50	9.27		.00	2.75	4.88	.03	--	--		242	4.8																																										
							24	21	55				28	71																																																
05/23/74	5050			69.8F	7.2	1000	53	20	130	4.3	n	156	148	169	6.8	.60	--	630	240																																											
0945	5050			21.0C	7.5	1100	2.64	2.14	5.66	.11	.00	2.56	3.08	4.77	.11	--	17.0	631	111	3.7																																										
							25	20	54	1			24	45	1																																															
07/11/74	5050	21.96	6.8	72	F	7.6	980	48	25	116	--	n	154	108	153	--	.30	--	594	225																																										
1020	5050		77	22	C	8.1	997	2.40	2.11	5.05		.00	2.52	2.25	4.31	--	--	527	100	3.4																																										
							25	22	53				28	47																																																
08/21/74	5050			75.2F	7.4	1100	51	26	133	4.2	n	169	125	178	4.2	.30	--	653	236																																											
1030	5050			24.0C	7.4	1170	2.54	2.14	5.79	.11	.00	2.77	2.60	5.02	.15	--	23.0	633	96	3.8																																										
							24	20	55	1			26	48	1																																															
09/16/74	5050	21.09	6.8	71.6F	8.0	1160	54	30	150	--	n	191	154	200	4.7	.60	--	718	250																																											
1000	5050		77	22.0C	7.8	1260	2.69	2.68	6.53		.00	3.13	3.21	5.64	.08	--	--	687	102	4.1																																										
							23	21	56				26	47	1																																															
RD 0770.00 DELTA MENDOTA CANAL TO MENDOTA POOL																																																														
03/26/74	5050	15.20	9.8	59	F	7.5	380	23	10	36	--	n	79	--	44	3.4	.10	--	230	101																																										
0830	5050		97	15	C	7.6	400	1.15	.87	1.57		.00	1.29	--	1.24	.05	--	--		37	1.6																																									
							32	24	44				50		48																																															
07/12/74	5050	15.00	8.1	73	F	7.4	185	13	7.2	18	--	n	60	18	18	--	.10	--	133	62																																										
0940	5050		94	23	C	8.0	203	.65	.59	.78		.00	.98	.37	.51	--	--	104	13	1.0	T																																									
							32	29	39				53	20	27																																															
RD 3115.00 STANISLAUS RIVER AT KOFTITZ RANCH																																																														
03/13/74	5050	33.55	11.2	54	F	7.6	75	8.6	4.0	3.9	--	n	45	--	1.4	1.3	.00	--	68	38																																										
1200	5050		104	12	C	7.7	96	.63	.33	.17		.00	.74	--	.04	.03	--	--		1	0.3	Ex																																								
								46	35	18			91		5	4																																														
07/12/74	5050	29.68	8.4	68	F	7.4	150	14	7.1	8.4	--	n	75	5.6	5.4	--	.00	--	115	64																																										
0645	5050		42	20	C	7.5	140	.70	.68	.37		.00	1.23	.12	.15	--	--	77	3	0.5	T																																									
								42	35	22			82	8	10																																															
09/16/74	5050	28.68	8.8	73.6F	7.3	160	3.7	.4	3.8	--	n	16	2.3	2.5	1.1	.00	--	31	11																																											
1420	5050		102	23.0C	6.9	44	.18	.03	.17		.00	.26	.05	.07	.02	--	--	22	0	0.5	Ex																																									
							47	8	45				65	13	18	5																																														
RD 3185.00 STANISLAUS RIVER AT KNIGHTS FERRY																																																														
09/26/74	5050		8.7	64.4F	7.3	65	6.7	3.2	3.0	--	n	39	2.3	.4	--	.00	--	63	39																																											
0650	5050		96	20.2C	7.4	72	.33	.26	.13		.00	.64	.05	.01		--	--	35	0	0.2	E																																									
							46	36	18				91	7	1																																															
RD 4105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																																																														
03/13/74	5050	27.35	10.4	57	F	7.4	160	12	5.4	18	--	n	47	--	32	2.3	.00	--	123	52																																										
1130	5050		100	14	C	7.7	201	.60	.44	.78		.00	.77	--	.90	.04	--	--		14	1.1	X																																								
								33	24	43			45		53	2																																														
07/11/74	5050	18.68	8.5	74.3F	7.7	400	26	8.8	41	--	n	92	1.5	78	--	.10	--	262	101																																											
1300	5050		94	23.5C	7.3	446	1.30	.72	1.78		.00	1.51	.03	2.20		--	--	201	26	1.8	T																																									
							34	19	47				40	1	58																																															
09/16/74	5050	25.66	8.7	68.0F	7.2	200	31	15	74	--	n	123	60	94	6.7	.20	--	369	143																																											
1345	5050		95	20.0C	7.8	667	1.55	1.31	3.22		.00	2.02	1.25	2.65	.11	--	--	342	42	2.7	X																																									
							25	22	53				33	21	44	2																																														
RD 4150.00 TUOLUMNE RIVER AT HICKMAN BRIDGE NE WATERFORD																																																														
03/13/74	5050	70.95	12.9	61	F	8.0	130	7.7	3.6	16	--	n	49	--	20	.0	.00	--	98	34																																										
1400	5050		131	16	C	7.7	153	.38	.30	.70		.00	.80	--	.56	.00	--	--		0	1.2																																									
								28	22	51			58		41																																															
RD 4175.00 TUOLUMNE RIVER AT LA GRANGE BRIDGE																																																														
03/14/74	5050		11.8	52	F	7.0	40	5.1	1.8	2.2	--	n																																																		

[illegible]

## B0 5166.50 CANAL CREEK AT OAKDALE ROAD (Continued)

04/24/74	5050	50	10.5	53.0	7.3	5.1	2.2	2.2	--	0	23	1.6	.0	--	.00	--	18	20		E
1400	5050		47	11.9C	7.3	2.5	1.1	1.0		.00	38	1.03	.00	--	--	22	3	0.2	T	
						47	34	19			93	7								
05/23/74	5050		4.7	57.4F	7.3	4.8	1.9	2.5	--	0	25	3.4	1.8	--	.10	--	39	20		E
1230	5050	60	94	13.9C	7.7	2.4	1.6	1.1		.00	41	1.07	1.05		--	27	0	0.2	T	
						47	31	22			77	13	9							
06/26/74	5050		11.5	57.0	7.2	3.5	2.3	2.6	--	0	22	2.6	1.5	--	.00	--	24	18		
1000	5050		111	14.0	7.3	1.7	1.9	1.1		.00	36	1.05	1.04		--	23	0	0.3		
						36	40	23			80	11	9							

PN 6369.59 DUTCHMAN CREEK AT BAXTER ROAD

02/27/74	5050	9.1	53	F	7.6	22	14	30	--	0	171	--	16	--	.00	--	111
0700	5050	)	84	12	C	7.6	361	1.10	1.15	1.31	.00	2.80	.45	--	--	0	1.2
								31	32	37							
03/27/74	5050	5.9	58.0F	7.4		20	15	30	--	0	179	10	13	--	.00	--	190
0715	5150	)	58	14.4C	7.4	352	1.00	1.23	1.31	.00	2.43	.21	.37	--	--	176	111
							28	35	37			6	11			0	1.2

40 6700.50 DEADMAN CREEK AT BAXTER ROAD

02/27/74	5050		4.9	5.4	7.3	2.0	1.5	2.6	--	0	154	12	13	--	.00	--	111
0745	5050	.2	92	12	C	30.9	1.00	1.23	1.13	.00	2.52	2.25	.37	--	162	0	1.1
							30	37	34		80	8	12				
03/27/74	5050		9.6	50.0F	7.5		17	13	25	--	0	150	7.2	10	--	.00	168
0730	5050	.1	95	15.0C	8.0	290	.55	1.07	1.09	.00	2.46	1.15	2.8	--	166	95	1.1
							28	36	16		85	5	16				
04/24/74	5050		4.2	57.0F	7.7		10	14	25	--	0	155	6.2	9.5	--	.00	171
0745	5050	.1	79	13.9C	7.9	290	.90	1.15	1.09	.00	2.54	1.13	2.7	--	149	99	1.1
							29	37	35		86	4	9				

80 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS

10/18/73 0745	5050 5030	12.17	7.7 7.1	64.40 18.00	7.2 7.7	390 494	27 1.15	11 .90	53 2.31	7.5 .09	0 0.00	105 1.72	42 1.47	70 1.97	-- 43	.02 --	-- --	254	100 17	200 2.3	EX T
11/16/73 0830	5050 5000	13.50	7.8 7.4	55.40 13.00	7.4	500	31 1.55	15 1.23	70 3.05	3.3 .08	0 0.00	130 2.13	49 1.02	93 2.62	-- 45	.25 19.0	.1	344	140 33	200 2.6	
12/19/73 0900	5050 5030	12.67	9.9 8.5	44.20 9.00	7.2	350	20 1.00	9.1 .75	41 2.1	2.1 .05	0 0.00	78 1.29	40 2.3	54 1.52	-- 42	.17 14.0	.2	219	88 24	90 1.9	
01/30/74 0800	5050 5000	12.42	11.0 9.4	47.30 4.50	9.2	150 317	19 1.45	7.6 .63	32 1.39	1.8 .05	0 0.00	68 1.11	34 2.1	38 1.07	-- 37	.20 14.0	.0	180	79 24	200 1.6	
02/22/74 0740	5050 5000	13.59	10.7 9.2	48.20 4.00	7.3	350	25 1.25	12 .99	55 2.39	2.3 .06	-- 0.00	90 1.48	52 1.08	70 1.97	-- 41	.23 16.0	.2	110	200 2.3		
03/21/74 0730	5050 5000	13.90	9.8 9.1	54.40 13.00	7.2	500	24 1.40	14 1.15	61 2.65	2.6 .07	-- 0.00	92 1.51	71 1.48	75 2.12	-- 41	.28 16.0	.3	130	200 2.4		
04/18/74 0730	5050 5000	15.32	9.7 9.4	57.20 14.00	7.7	400	24 1.20	12 .90	53 2.31	2.1 .05	-- 0.00	75 1.23	63 1.31	61 1.72	-- 41	.29 14.0	.0	110	200 2.2		
05/24/74 0800	5050 5000	12.40	8.5 7.3	60 20	7.6	500	31 1.55	15 1.23	60 2.61	2.7 .07	-- 0.00	115 1.88	50 1.04	82 2.31	-- 41	.21 17.0	.2	140	400 2.2		
06/20/74 0645	5050 5030	13.38	8.0 8.7	58 20	7.2	400	23 1.15	10 .82	43 1.87	2.6 .07	-- 0.00	88 1.44	38 1.79	53 1.49	-- 41	.16 16.0	.1	99	300 1.9		
07/25/74 0735	5050 5000	10.55	7.2 8.4	61 27	7.6	900	41 2.05	20 1.64	93 3.61	4.0 .10	-- 0.00	153 2.51	63 1.31	130 3.67	-- 41	.28 20.0	.1	190	400 2.7		
08/22/74 0750	5050 5050	10.95	7.4 8.6	73 23	7.2	600	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	378			

## SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

03/13/74	56.5A	14.72	9.8	5K	7.4	395	25	13	47	--	0	90	--	63	7.2	.30	--	309	116
1245	5050		96	14	C	7.5	513	1.25	1.07	2.48	.000	1.48		1.75	.12		--	42	2.3
								26	22	52		44			4				
07/11/74	50.50	15.37	9.9	72.5F	P.1	H00	4.0	17	86	--	0	143	72	120	--	.20	--	460	173
1400	5050		113	22.5C	P.2	791	2.00	1.46	3.74	.000	2.34	1.50	3.3P			--	--	406	56
							28	21	52			21	47						2.8
09/16/74	50.50	15.91	4.5	71.6F	7.5	620	14	4.4	20	--	0	32	4.9	29	2.1	.00	--	130	55
1500	5050		108	22.0C	7.3	225	.70	.40	.87	.000	1.1-8	.10	.82	.03		--	--	110	0
								20	.44			.55	.5	.38	.1				1.2

## NO 7087.00 SAN JUAQUIN RIVER NEAR GRAYSON

07/13/74	555n	9.3	57	F	7.4	440	29	19	73	--	0	115	--	78	10.0	.50	--	408	154		x
0915	505n	90	14	C	7.5	684	1.45	1.43	3.18		.00	1.88		2.20	.16		--	60	2.6		
							23	26	51			44		52	4						
07/11/74	505n	4.8	72.5F		8.1	900	42	23	103	--	0	163	96	125	--	.30	--	520	201		*
1230	505n	112	22.5C		8.1	885	2.10	1.92	4.48		.00	2.67	2.00	3.53			--	470	68	3.2	
							25	23	53			33	24	43							
09/16/74	505n	8.6	73.4F	7.4	1000	46	24	188	110	--	0	188	110	147	11.0	.30	--	584	215		
1315	505n	100	23.0C	7.9	1020	2.30	2.00	5.26			.00	3.08	2.29	4.15	.18		--	552	61	3.6	
							24	21	55			.32	24	43	2						

TABLE D-2 (Cont'd)

## MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER							REMARKS		
						CA	MG	NA	K	CO3	HCO3	CO4	CL	NO3	PERCENT VALU	MILLIGRAMS PER LITER									
SAN JOAQUIN RIVER AT PATTERSON BRIDGE																									
03/17/74	5050	76.48	7.5	54	F	7.4	525	29	20	78	--	0	110	--	79	7.0	.40	--	419	156	66	2.7		X	
0845	5050		9.0	13	C	7.6	609	1.45	1.67	3.39		0.00	1.80		2.23	.11	--	--							
SAN JOAQUIN RIVER AT CHOWS LANDING BRIDGE																									
03/17/74	5050	42.50	4.7	56	F	7.4	525	32	18	77	--	0	106	--	82	7.2	.50	--	408	154	67	2.7		X	
0830	5050		03	13	C	7.6	609	1.60	1.48	3.35		0.00	1.74		2.31	.12	--	--							
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																									
03/17/74	5050	54.25	9.7	63	F	7.4	600	40	20	90	--	0	114	--	100	9.2	.60	--	481	184	91	2.9			
1440	5050		100	17	C	7.4	608	2.00	1.68	3.92		0.00	1.87		2.82	.15	--	--							
05/27/74	5050					7.3	1100	57	28	152		0	173		142	202	5.9	.40	--	692	260				
1000	5050					7.5	1220	2.44	2.30	6.61		0.00	2.84		2.96	5.70	.10	17.0	694	115	4.1				
07/11/74	5050	56.42	8.6	61.7F	7.3	1170	2.56	2.21	6.31		--	0	172		112	193	--	.30	--	680	238				
0940	5050		8.4	16.5C	7.3	1170	2.56	2.21	6.31		0.00	2.82		2.73	5.46	.30	--	--	613	97	4.1				
08/21/74	5050					7.0F	8.0	1200	56	24	146		0	184		118	207	.30	--	706	258				
1055	5050					7.5	1240	2.79	2.38	6.35		0.00	3.05		2.46	5.84	.11	23.0	682	106	3.9				
09/16/74	5050	55.55	10.0	73.4F	9.0	1400	59	32	185		--	0	204		135	239	3.3	.40	--	772	281				
1030	5050		116	23.0C	9.1	1370	2.94	2.67	7.18		0.00	3.38		2.81	6.71	.05	--	--	734	112	4.3				
SAN JOAQUIN RIVER NEAR MENDOTA																									
03/26/74	5050	2.94	13.1	54	F	7.4	200	28	17	61	--	0	91	--	76	5.6	.30	--	345	143				X	
0810	5050		109	15	C	7.7	593	1.40	1.46	2.65		0.00	1.49		2.14	.09	--	--							
07/12/74	5050	4.10	4.8	73	F	8.0	700	34	19	80	--	0	123		67	113	--	.30	--	420	170				
1015	5050		10.2	23	C	7.7	733	1.80	1.60	3.49		0.00	2.02		1.30	3.19	--	--	376	69	2.7				
SAN JOAQUIN RIVER AT FRIANT DAM																									
03/13/74	5050	1.97	8.1	49.0F	7.2		5.7	0	5.4	--	0	26	--	2.4	1.6	.00	--	56	18					E	
1055	5050		71	3.4C	7.5	65	.28	.07	.23		0.00	.43		.07	.03		--	--	0	0.6					
07/18/74	5050	2.40	13.0	58.1F	7.2	25	3.0	.6	.4	--	0	14		.0	3.8	--	.00	--	33	10				EX	
1130	5050		128	14.5C	7.5	30	.15	.05	.15		0.00	.23		.08	.11	--	--	--	18	0	0.5			T	
09/17/74	5050	2.12	12.5	56.7F	7.1	35	15	6.2	9.2	--	0	80		8.2	4.2	.00	--	108	63					X	
1120	5050		121	13.5C	7.4	174	.75	.51	.40		0.00	1.31		.17	.12	.07	--	--	86	0	0.5			T	
STANISLAUS RIVER BELOW TULLOCK DAM																									
03/14/74	5050	12.30	12.9	46	F	7.3	50	6.6	3.5	2.5	--	0	36	--	.0	.5	.00	--	56	31				EX	
0800	5050		109	3	C	7.4	71	.33	.29	.11		0.00	.50		.00	.01	--	--	2	0.2					
07/24/74	5050	15.72	7.2	75	F	7.2	90	8.6	3.8	4.2	--	0	44		1.2	4.7	--	.00	--	66	37			E	
0730	5050		110	24	C	7.5	92	.63	.31	.18		0.00	.72		.02	.13	--	--	44	1	0.3			T	
STANISLAUS RIVER ABOVE MELUNES RESERVOIR																									
03/14/74	5050	12.4	47	F	7.2	35	6.4	.5	2.2	--	0	24	--	.0	.0	.00	--	47	18					EX	
0915	5050		113	4	C	7.8	48	.32	.04	.10		0.00	.39		.00	.00	--	--	0	0.2					
STANISLAUS RIVER AT PARKOTTS FERRY BRIDGE																									
09/25/74	5050	10.2	61.2F	7.6	36	4.4	1.5	2.0	--	0	22	1.3	.0	--	.00	--	40	17						E	
1715	5050		106	16.2C	7.3	41	.22	.12	.09		0.00	.36		.03	.00	--	--	--	20	0	0.2			T	
STANISLAUS RIVER NE AT CALAVERAS BIG TREES STATE PARK																									
09/25/74	5050	9.5	62.6F	7.2	33	3.7	.4	2.1	--	0	18	1.6	.4	--	.00	--	33	13						E	
1515	5050		100	17.0C	7.1	34	.18	.07	.09		0.00	.30		.03	.01	--	--	--	18	0	0.3			T	
STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY																									
09/25/74	5050	10.1	57.2F	7.3	40	4.4	1.5	2.1	--	0	24	1.5	.0	--	.00	--	40	18						E	
0805	5050		110	14.0C	7.3	44	.24	.12	.09		0.00	.39		.03	.00	--	--	--	22	0	0.2			T	
STANISLAUS RIVER MIDDLE FORK AT DARDANVILLE																									
09/25/74	5050	9.7	52.2F	7.3	50	8.1	1.6	3.0	--	0	35	2.6	.5	--	.00	--	59	27						EX	
1020	5050		103	11.2C	7.4	67	.40	.13	.13		0.00	.57		.05	.01	--	--	--	33	0	0.3			T	
WOODS CREEK AT SLATE CREEK																									
11/15/73	5050		11.0	53.5F	8.0												207							8A	
1230	5050		102	11.9C	7.9	356																			
WOODS CREEK BELOW JAMESTOWN STR																									
11/15/73	5050		10.5	52.0F	7.8												208							5A	
1145	5050		95	11.1C	7.7	462																			

TABLE D-2 (Cont'd)

## MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER PERCENT REACTANCE VALUES					MILLIGRAMS PER LITER					REM
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	VALU	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3			
44 1230.50 WOODS CREEK BELOW SONOMA STP																										
11/15/73	5050		7.4	51.0F	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	214				9A	
1130	5050		6.6	10.5C	7.3	380															--	--				
44 1234.50 WOODS CREEK AT COUNTY FAIRGROUNDS																										
11/15/73	5050		10.6	52.0F	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	232				1A	
1000	5050		9.6	11.1C	7.4	499															--	--				
44 1241.50 WOODS CREEK AT JACK RAGG ROAD ABOVE SONOMA																										
11/15/73	5050		8.2	56.0F	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	216				1A	
0940	5050		7.8	13.3C	7.9	347															--	--				
44 1245.50 TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR																										
03/14/74	5050		12.6	50 F	7.2	30	4.0	.7	2.2	--	0	18	--	.0	.1	.00	--	--	--	--	39	13			Ex	
1030	5050		11.4	10 C	7.8	3A	.20	.06	.10		.00	.30		.00	.00						--	--	0	0.3		
							56	17	28			100														
07/24/74	5050		8.6	82 F	7.3	55	4.1	2.4	1.7	--	0	23	.0	1.4	--	.00	--	--	--	--	36	20			E	
0900	5050		11.1	29 C	7.3	50	.20	.20	.07		.00	.38	.00	.04							21	1	0.2		T	
							43	43	15			90		10												
44 1249.10 TUOLUMNE RIVER AT WARDS FERRY BRIDGE																										
09/11/74	5050		9.6	40.0F	7.7	60	4.6	2.1	1.6	--	0	26	1.0	.0	--	.00	--	--	--	--	36	20			T	
1500	5050		12.3	27.0C	7.0	52	.23	.17	.08		.00	.43	.02	.03							23	0	0.2			
							48	35	17			90		6												
44 1600.00 TUOLUMNE RIVER ABOVE FAIRLY INTAKE																										
09/11/74	5050		10.3	54.4F	7.2	10	.9	.0	.6	--	0	6	.0	.0	--	.00	--	--	--	--	12	2			Ex	
1215	5050		11.0	14.2C	6.7	15	.04	.00	.03		.00	.10	.00	.00							4	0	0.2		T	
							57		43			100														
44 1450.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																										
09/11/74	5050		9.9	55.4F	7.1	28	1.6	.0	2.5	--	0	11	.0	2.7	--	.00	--	--	--	--	21	4			E	
0015	5050		13.0	13.0C	7.0	25	.03	.00	.11		.00	.18	.00	.08							12	0	0.5		T	
							42		58			69		31												
45 1200.00 MERCED RIVER BELOW EXCHEQUIER DAM																										
03/14/74	5050		12.1	54.0F	7.0	40	5.5	1.5	2.2	--	0	23	--	1.4	.6	.00	--	--	--	--	43	20			Ex	
1330	5050		11.4	12.2C	7.6	51	.27	.12	.10		.00	.38	.04	.01							1	0.2				
							55	24	20			88		9												
07/24/74	5050		9.6	54.5F	7.0	35	3.9	1.4	2.2	--	0	19	.6	1.9	--	.00	--	--	--	--	34	17			Ex	
1100	5050		9.1	12.5C	7.1	44	.19	.15	.10		.00	.31	.01	.05							20	2	0.2		T	
							43	34	23			84		14												
45 1400.00 MERCED RIVER ABOVE LAKE MCCLURE RESERVOIR																										
03/15/74	5050		6.00	11.5	42 F	7.1	28	4.2	.6	2.2	--	0	16	--	1.4	.0	.00	--	--	--	36	13			Ex	
0930	5050		10.3	9 C	8.0	38	.21	.05	.10		.00	.26	.04	.00							--	--	0	0.3		
							58	14	28			87		13												
45 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																										
02/27/74	5050		10.7	53 F	7.4		26	14	13	--	0	164	14	9.5	--	.00	--	--	--	--		144				
1100	5050		7.0	599	12 C	7.4	316	1.30	1.56	.57		.00	2.69	.29							162	9	0.5			
							38	45	17			83		9												
03/27/74	5050		10.6	60.0F	8.0		16	22	12	--	0	159	12	8.3	--	.00	--	--	--	--	173	129				
1100	5050		12	107	15.5C	4.2	295	.80	1.81	.52		.00	2.61	.25							148	0	0.5			
							26	58	17			84		7												
04/24/74	5050		10.5	64 F	8.2		25	18	10	--	0	159	12	5.2	--	.00	--	--	--	--	174	128				
1200	5050		20	111	14 C	8.0	285	1.25	1.48	.44		.00	2.61	.25							148	6	0.4			
							39	47	14			87		8												
05/23/74	5050		9.8	73.0F	8.2		29	21	13	--	0	201	14	9.7	--	.10	--	--	--	--	215	160				
1030	5050		3.0	114	22.8C	8.2	360	1.45	1.73	.57		.00	3.29	.29							186	0	0.4			
							39	46	15			85		7												
45 6152.50 BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE																										
02/27/74	5050		9.3	54 F	7.5		26	14	16	--	0	152	28	10	--	.00	--	--	--	--		130				
1010	5050		5.0	87	12 C	8.1	331	1.30	1.48	.70		.00	2.49	.58							173	15	0.6			
							37	43	20			74		8												
03/27/74	5050		8.9	59.0F	7.4		22	18	15	--	0	155	12	8.7	--	.00	--	--	--	--	180	129				
0845	5050		7.0	89	15.0C	7.9	309	1.10	1.44	.65		.00	2.54	.25							152	2	0.6			
							34	46	20			84		8												
04/24/74	5050		8.2	59.0F	7.6		24	18	14	--	0	156	19	7.1	--	.00	--	--	--	--	179	132				
0800	5050		5.0	82	15.0C	7.6	300	1.20	1.56	.61		.00	2.56	.40							160	10	0.5			
							36	46	18			81		13												
05/23/74	5050		6.2	67.0F	7.6		24	19	19	--	0	169	25	13	--	.10	--	--	--	--	189	130				
0745	5050		.1	68	19.4C	8.1	342	1.20	1.56	.83		.00	2.77	.52							183	0	0.7			
							33	43	23			76		10												

TABLE D-2 (Cont'd)

## MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. G DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					REM		
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH		TURB SAR	
46 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																						
02/27/74 0825	5050 5050	2.5	11.0 10.3	54 12	F C	7.4 4.2	427	37 40	23 41	20 19	-- .00	0 3.74	224 84	15 7	14 .39	-- .00	--	221	189 0	0.6		
03/27/74 1030	5050 5050	3.0	12.2 12.8	63.0F 17.2C	8.2 8.5	349	18 21	31 60	18 18	-- .00	4.0 .13	213 3.49	12 .25	11 .31	-- .00	.00	--	233 199	172 0	0.6		
04/24/74 1125	5050 5050	5.0	16.2 11.0	66 14	F C	9.5 8.3	367	31 38	21 43	18 19	-- .00	0 3.21	196 87	8.9 .19	11 .31	-- .00	.00	--	210 186	154 4	0.6	
05/23/74 0945	5050 5050	3.0	12.4 14.9	76.0F 24.4C	8.2 8.0	401	24 33	23 44	22 23	-- .00	0 3.54	216 83	14 .29	15 .42	-- .00	.00	--	214 208	164 0	0.7		
06/26/74 0630	5050 5050		5.1 5.3	63 17	F C	7.6 7.6	442	36 39	21 38	24 23	-- .00	0 3.85	235 84	15 .31	16 .45	-- .00	.00	--	234 228	177 0	0.4	
46 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																						
02/27/74 0845	5050 5050	15	11.5 10.5	52 11	F C	7.8 8.0	266	22 39	15 1.23	11 .48	-- .00	0 2.28	130 86	10 .21	7.6 .21	-- .00	--	134	116 3	0.4		
03/27/74 0945	5050 5050	20	10.4 10.9	60.0F 15.5C	9.0 8.3	242	14 36	14 1.15	10 .44	-- .00	0 2.13	130 85	10 .21	6.0 .17	-- .00	.00	--	149 122	104 0	0.4		
04/24/74 1005	5050 5050	15	12.7 11.1	62 17	F C	8.0 7.4	241	19 36	14 1.15	12 .52	-- .00	0 2.10	128 80	19 .40	4.7 .13	-- .00	.00	--	150 132	101 0	0.5	
05/23/74 0900	5050 5050	10	9.2 10.5	71.0F 21.0C	8.0 8.3	299	24 34	16 1.32	14 .41	-- .00	0 2.69	164 83	15 .31	9.3 .26	-- .10	.10	--	183 159	127 0	0.5		
46 4200.00 CHOCCHILLA RIVER NR RAYMOND																						
03/13/74 0900	5050 5050	71.05 80	4.7 11.1C	52.0F 7.4	7.6 7.4	136	11 42	4.0 .33	10 .44	-- .00	0 1.08	66 86	-- 86	6.2 .17	.5 .01	.00	--	104	44 0	0.7	E	
07/19/74 0830	5050 5050	68.00 104	4.5 25	77 C	8.0 9.0	360 380	24 40	6.3 .52	36 1.57	-- .00	0 1.56	95 49	.0 1.69	.0 1.69	-- 52	.00	--	233 177	94 18	1.6	T	
46 7150.00 FRESNO RIVER NR BAULTON																						
03/13/74 0935	5050 5050		7.4 70	54.0F 12.2C	7.6 7.7	130	12 47	2.4 .24	10 .44	-- .00	0 1.02	62 86	-- 86	5.7 .16	.7 .01	.00	--	100	42 0	0.7	E	
07/19/74 0730	5050 5050		8.1 94	77 25	F C	7.3 7.7	140 137	2.6 .21	13 .57	-- .00	0 .74	45 61	.2 .00	17 .48	-- 39	.00	--	94 65	35 0	1.0	T	
47 1100.00 KROCKHOFF RESERVOIR NEAR AUBERRY																						
03/13/74 1240	5050 5050		10.3 94	44.0F 6.7C	7.2 7.7	30	3.3 47	.4 .03	3.4 .15	-- .00	0 .28	17 90	-- 90	.9 .03	.3 .00	.00	--	40	10 0	0.5	E	
07/17/74 1000	5050 5050		11.0 127	63 17	F C	6.3 6.9	20 38	1.6 .04	2.0 .09	-- .00	0 .25	15 78	.0 .00	2.4 .07	-- 22	.00	--	24 14	6 0	0.4	E T	
47 1910.00 FRIANT-KERN CANAL AT FRIANT																						
07/26/74 1230	5050 5050		14.5 149	63 17	F C	7.0 7.4	20 38	1.6 .06	1.7 .07	-- .00	0 .28	17 85	.0 .00	1.9 .05	-- 15	.00	--	27 14	7 0	0.3	E T	
09/17/74 1100	5050 5050		9.4 129	63.5F 17.5C	7.0 6.4	25	2.4 .12	.2 .02	1.9 .08	-- .00	0 .14	10 84	.0 .00	1.2 .03	.2 .00	.00	--	17 11	7 0	0.3	T	
50 1150.00 KINGS RIVER BELOW PEOPLES WEIR																						
03/14/74 1350	5050 5050		10.9 104	55.0F 12.9C	7.2 7.7	76	7.3 .36	2.4 .20	4.2 .18	-- .00	0 .56	33 84	-- 84	2.8 .08	1.1 .02	.00	--	60	28 1	0.3	E	
07/16/74 1030	5050 5050	5.85	10.1 111	64 20	F C	7.2 7.0	30 31	2.5 .12	2.0 .09	-- .00	0 .26	14 81	.0 .00	1.9 .05	.6 .01	.00	--	26 16	10 0	0.3	E T	
50 2145.00 KAWAHA RIVER BELOW TERMINUS DAM																						
03/14/74 1240	5050 5050	616	9.3 85	51.0F 10.5C	7.4 7.8	89	11 .55	1.6 .13	4.6 .20	-- .00	0 .74	45 96	-- 96	.9 .03	.2 .00	.00	--	72	34 0	0.3	E	
07/16/74 1200	5050 5050	1845	10.5		7.2	35	4.5 .22	.9 .07	1.7 .07	-- .00	0 .31	10 86	.0 .00	1.9 .05	.3 .00	.00	--	33 19	15 0	0.2	E T	
50 3194.00 TULE RIVER BELOW SUCCESS DAM																						
03/20/74 1235	5050 5050	2.44	10.4 103	59 14	F C	8.4 8.1	200	22 53	5.8 1.10	11 .48	-- .00	0 1.67	-- 92	4.7 .13	.9 .01	.00	--	138	79 0	0.5		
07/17/74 1230	5050 5050	5.72	10.1 106	63 17	F C	7.1 7.2	125 155	1.8 .90	3.4 .28	-- .00	0 1.31	80 89	.0 .00	5.2 .15	1.4 .02	.10	--	110 76	59 0	0.5	E T	

TABLE D-2 (Cont'd)

## MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. D DEPTH	DO SAT	TEMP	FIELD LABORATORY PW EC		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT				MILLIGRAMS PER LITER					REM	
					Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	R	F	TDS SUM	TH NCM	TOUR SAP			
C0 5150.00 KERN RIVER NE BAKERSFIELD																					
03/21/74 0800	5050			8.8	84.0F	7.5		14	2.7	13	--	0	74	--	4.7	.2	.10	--	98	46	
	5050			93	17.4C	7.7	156	.47	.15	.38		.00	1.15 90		.13 10	.00	--	--	0	0.8	
07/17/74 1045	5050			9.6	60 F	7.8	75	6.8	1.7	7.6	--	0	37	3.0	4.6	.5	.00	--	57	24	
	5050			106	26 C	7.5	86	.14	.14	.33		.00	.61 75	.06 7	.13 16	.01 1	--	--	42	0	0.7
C1 1140.00 KINGS RIVER BELOW PINE FLAT RESERVOIR																					
03/14/74 0915	5050			4.58	44.0F	7.3		4.2	.6	2.5	--	0	18	--	.5	.6	.00	--	34	13	
	5050			97	4.9C	7.6	41	.21 57	.05 14	.11 30		.00	.30 94		.01 3	.01 3	--	--	0	0.3	E
07/18/74 0820	5050			7.22	50 F	7.2	25	3.2	1.5	2.5	--	0	19	.0	2.2	.3	.00	--	35	14	
	5050			117	10 C	7.3	39	.14 41	.12 31	.11 28		.00	.31 84	.00	.06 16	.00	--	--	19	0	0.3
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																					
03/13/74 1450	5050			2.60	50.0F	7.4		6.8	1.5	5.2	--	0	36	--	1.6	.1	.00	--	66	23	
	5050			113	15.0C	7.8	71	.74 49	.12 17	.23 33		.00	.59 94		.04 6	.00	--	--	0	0.5	E
C1 1440.00 KINGS RIVER BELOW NORTH FORK																					
03/13/74 1415	5050			4.81	52.0F	7.4		5.6	.5	3.2	--	0	23	--	.0	.0	.00	--	47	16	
	5050			86	11.1C	7.8	50	.28 61	.04 5	.14 40		.00	.38 100		.00	.00	--	--	0	0.3	E
C2 1250.00 KAWeah RIVER AT THREE RIVERS																					
03/14/74 1145	5050			4.86	52.0F	7.6		9.0	1.3	3.7	--	0	37	--	1.4	.0	.00	--	59	28	
	5050			106	11.1C	7.5	70	.45 63	.11 15	.16 22		.00	.61 94		.04 6	.00	--	--	0	0.4	E
07/16/74 1300	5050			3.76	73 F	8.2	50	6.6	.4	2.7	--	0	27	.3	1.0	.2	.00	--	42	20	
	5050			110	23 C	7.5	53	.33 63	.07 13	.12 23		.00	.44 88	.01 2	.05 10	.00	--	--	26	0	0.3
C3 1150.00 TULE RIVER NW SPRINGVILLE																					
03/20/74 1200	5050			4.60	44.2 F	7.0		10	3.5	8.4	--	0	87	--	2.8	.8	.00	--	110	62	
	5050			47	12 C	7.0	150	.95 59	.24 14	.47 23		.00	1.43 94		.04 5	.01 1	--	--	0	0.5	
C3 1320.00 TULE RIVER BELOW SPRINGVILLE																					
07/17/74 1300	5050			3.64	81 F	8.4	300	40	5.4	16	--	0	166	1.5	8.5	.5	.10	--	190	122	
	5050			118	27 C	8.3	296	2.00 64	.44 14	.70 22		.00	2.72 91	.03 1	.24 8	.01	--	--	154	0	0.6
C5 1350.00 KERN RIVER BELOW ISABELLA DAM																					
03/21/74 0620	5050			4.74	48 F	7.4		11	2.3	11	--	0	50	--	3.8	.4	.10	--	82	37	
	5050			108	14 C	7.8	130	.55 45	.14 16	.48 39		.00	.45 89		.11 10	.01 1	--	--	0	0.4	
07/17/74 0900	5050			8.63	48 F	7.2	70	6.8	1.5	7.2	--	0	35	2.6	4.8	.6	.10	--	55	23	
	5050			108	14 C	7.3	80	.34 44	.12 10	.31 40		.00	.57 74	.05 6	.14 18	.01 1	--	--	41	0	0.7
C5 1500.00 KERN RIVER AT KERNVILLE																					
03/21/74 0600	5050			4.6	52 F	7.2		9.7	1.6	7.8	--	0	47	--	1.6	.0	.00	--	74	31	
	5050			95	11 C	7.7	97	.48 51	.13 14	.34 36		.00	.77 45		.04 5	.00	--	--	0	0.6	E

TABLE D-3

MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-3 presents minor element analyses performed by the Department of Water Resources' laboratory and the U. S. Geological Survey's laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

TABLE D-3

## MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP ID	DEPTH	DISCH FC	TEMP °F	PH	ARSENIC	BARIUM CAIUM	CHROM (TAL) CMPOM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SILFNIUM	SILVER ZINC	REM
R0 1020.00 SAN JOAQUIN RIVER NEAR VERNALIS													
10/18/73	5050			18.00									
0745	5000		390	7.2	--	--	--	--	0.0200 D	--	--	--	--
11/16/73	5050			13.00									
0830	5000		500	7.4	--	--	--	--	0.030 D	--	--	--	--
12/19/73	5050			9.00									
0900	5000		750	7.2	--	--	--	--	0.050 D	--	--	--	--
01/30/74	5050			8.50									
0800	5000		150	8.2	--	--	--	--	0.060 D	--	--	--	--
02/22/74	5050			9.00									
0740	5000		450	7.3	--	--	--	--	0.030 D	--	--	--	--
03/21/74	5050			13.00									
0730	5000		500	7.2	--	--	--	--	0.000 D	--	--	--	--
04/18/74	5050			14.00									
0730	5000		400	7.7	--	--	--	--	0.040 D	--	--	--	--
05/24/74	5050			20.0									
0800	5000		500	7.6	--	--	--	--	0.030 D	--	--	--	--
06/20/74	5050			20.0									
0645	5000		400	7.2	--	--	--	--	0.030 D	--	--	--	--
07/25/74	5050			27.0									
0735	5000		900	7.6	--	--	--	--	0.030 D	--	--	--	--
R4 1232.50 WOODS CREEK AT SLATE CREEK													
10/25/73	5050			55.00				0.00 D	0.01 D	0.00 D	0.0001 T	--	
1200	5050		148	8.0	0.00 D	0.00 D	--	0.00 D	0.00 D	--	--	0.00 D	
11/15/73	5050			53.50				0.06 D	0.01 D	0.00 D	0.0001 T	--	
1230	5050			8.0	0.00 D	0.00 D	--	0.14 D	--	--	--	0.00 D	
R4 1241.50 WOODS CREEK AT JACK PAGE ROAD ABOVE FORDDA													
10/25/73	5050			52.00				0.02 D	0.01 D	0.00 D	0.0001 T	--	
0830	5050		200	7.3	0.00 D	0.00 D	--	0.06 D	--	--	--	0.00 D	
11/15/73	5050			56.00				0.04 D	0.00 D	0.00 D	0.0000 T	--	
0940	5050			7.4	0.00 D	0.00 D	--	0.05 D	--	--	--	0.00 D	
R5 6152.50 BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE													
03/27/74	5050		7	59.00					0.00 T	0.01 T	0.0001 T	--	
0845	5050			7.4	--	--	--	--	--	--	--	0.00 T	
04/24/74	5050		5	54.00					0.00 T	0.00 T	0.0001 T	--	
0800	5050			7.6	--	--	--	--	--	--	--	0.01 T	
R6 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR													
03/27/74	5050		20	60.00					0.00 T	0.01 T	0.0001 T	--	
0945	5050			8.0	--	--	--	--	--	--	--	0.00 T	
04/24/74	5050		15	62.0					0.00 T	0.00 T	0.0001 T	--	
1125	5050			8.0	--	--	--	--	--	--	--	0.03 T	

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-4 presents supplemental minor element analyses performed by the Department of Water Resources' laboratory and the U. S. Geological Survey's laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

TABLE D-4  
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP TAG	DEPTH	DISCH FC	TEMP °F	CONSTITUENTS IN MILLIGRAMS PER LITER										NICKEL STRONTIUM	TITANIUM VANADIUM	REMARKS
					ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BISMUTH	CADMIUM	COPPER	GALLIUM	GERMANIUM	LITHIUM			
RD 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
11/16/73	5050			13.00		--	--		--			0.000	n	--	--		
0830	5010		500	7.4	--	--	--		--			--		0.410	n	--	
12/19/73	5050			9.00		--	--		--			0.000	n	--	--		
0900	5000		350	7.2	--	--	--		--			--		0.240	n	--	
01/30/74	5050			8.50		--	--		--			0.000	n	--	--		
0800	5000		150	8.2	--	--	--		--			--		0.190	n	--	
02/22/74	5050			9.00		--	--		--			0.000	n	--	--		
0740	5000		350	7.3	--	--	--		--			--		0.320	n	--	
03/21/74	5050			13.00		--	--		--			0.000	n	--	--		
0730	5000		500	7.2	--	--	--		--			--		--			
04/18/74	5050			14.00		--	--		--			0.020	n	--	--		
0730	5000		400	7.7	--	--	--		--			--		0.280	n	--	
05/24/74	5050			23.1		--	--		--			0.010	n	--	--		
0900	5000		500	7.6	--	--	--		--			--		0.370	n	--	
06/20/74	5050			26.0		--	--		--			0.000	n	--	--		
0645	5000		400	7.2	--	--	--		--			--		0.250	n	--	
07/25/74	5050			27.0		--	--		--			0.010	n	--	--		
0735	5000		400	7.6	--	--	--		--			--		0.470	n	--	

TABLE D-5  
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-5 presents data not included in Tables D-2, D-3, D-4, D-6, and D-7. Definitions of abbreviations used in this table are as follows:

<u>Abbreviations</u>	
BOD	Biochemical Oxygen Demand (B = 5 day at 20° C)
COD	Chemical Oxygen Demand
SUSS	Suspended Solids at (S = 105° C)
VSUSS	Volatile
TOC	Total Organic Carbon
LAB	Laboratory
	5000 U. S. Geological Survey
	5050 Department of Water Resources

TABLE D-5

## MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAR	TEMP FC	DO G.M.	F-PH L-PH	DISCH MHAS	DEPTH TURA	T-CL CHLOR	0.6 COLOR	SET 5 ML/L MG/L	RON SUS 5	CON V SUS	CYANINE PHENOLS	TQC DOC	IOOIDE T OOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
RD 3195.00 STANISLAUS RIVER AT KNIGHTS FERRY																	
10/04/73	5050	68.5F	10.7	7.4	--	--	--	--	--	1	5	--	--	--	--	--	--
1530	5050				--	--	--	--	--			--	--	--	--	--	--
06/19/74	5050	16.9C	10.8	7.3	--	--	--	--	--	5	5	--	--	--	--	--	--
1300	5050	35			--	--	--	--	--			--	--	--	--	--	--
09/26/74	5050	20.2C	8.7	7.3	--	--	--	--	--	0.9	0	--	--	--	--	--	--
0650	5050	65			--	--	--	--	--	3	5	1	--	--	--	--	--
RD 4175.00 TUOLUMNE RIVER AT LA GRANGE BRIDGE																	
10/25/73	5050	56 F	12.1	6.8	--	--	--	--	--	7	5	--	--	--	--	--	--
1330	5050	30			--	--	--	--	--			--	--	--	--	--	--
06/05/74	5050	16.5C	10.8	7.1	--	--	--	--	--	2	5	--	--	--	--	--	--
1300	5050	28			--	--	--	--	--			--	--	--	--	--	--
09/11/74	5050	13.4C	11.2	6.4	--	--	--	--	--	1.6	0	--	--	--	--	--	--
1735	5050	34			--	--	--	--	--	0	5	0	--	--	--	--	--
RD 5166.50 CANAL CREEK AT OAKDALE ROAD																	
02/27/74	5050	62 F	11.7	6.8	0.1	--	--	--	--	55	0	--	--	--	--	--	--
1315	5050				--	--	--	--	--	146	5	107	--	--	--	--	--
03/27/74	5050	55 F	11.7	7.2	50	--	--	--	--	1.5	0	--	--	--	--	--	--
1335	5050				--	--	--	--	--	17	5	6	--	--	--	--	--
04/24/74	5050	53.5F	10.5	7.3	50	--	--	--	--	1.5	0	--	--	--	--	--	--
1400	5050				--	--	--	--	--	4	5	0	--	--	--	--	--
05/23/74	5050	57 F	9.7	7.3	60	--	--	--	--	1.7	0	--	--	--	--	--	--
1230	5050				--	--	--	--	--	0	5	0	--	--	--	--	--
06/26/74	5050	57 F	11.5	7.2	--	--	--	--	--	1.4	0	--	--	--	--	--	--
1000	5050				--	--	--	--	--	10	5	3	--	--	--	--	--
RD 6369.50 DUTCHMAN CREEK AT BAXTER ROAD																	
02/27/74	5050	53 F	9.1	7.6	0.1	--	--	--	--	2.2	0	--	--	--	--	--	--
0700	5050				--	--	--	--	--	12	5	4	--	--	--	--	--
03/27/74	5050	58 F	5.9	7.4	0.1	--	--	--	--	3.1	0	--	--	--	--	--	--
0715	5050				--	--	--	--	--	9	5	6	--	--	--	--	--
RD 6399.50 DEADMAN CREEK AT BAXTER ROAD																	
02/27/74	5050	54 F	9.4	7.3	0.2	--	--	--	--	2.0	0	--	--	--	--	--	--
0745	5050				--	--	--	--	--	7	5	3	--	--	--	--	--
03/27/74	5050	54 F	9.6	7.5	0.1	--	--	--	--	2.3	0	--	--	--	--	--	--
0730	5050				--	--	--	--	--	6	5	3	--	--	--	--	--
04/24/74	5050	57.0F	8.2	7.7	0.1	--	--	--	--	1.8	0	--	--	--	--	--	--
0745	5050				--	--	--	--	--	6	5	3	--	--	--	--	--
RD 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
10/18/73	5050	18 C	7.7	7.2	--	--	--	--	--	7.1	0	17	--	--	--	--	--
0745	5050	340	12.17		--	--	--	--	--			--	--	--	--	--	--
11/15/73	5050	13 C	7.8	7.4	--	--	--	--	--	2.0	0	15	--	--	--	--	--
0830	5050	500	12.50		--	--	--	--	--			--	--	--	--	--	--
12/19/73	5050	9 C	9.4	7.2	--	--	--	--	--	3.2	0	2	--	--	--	--	--
0900	5050	350	12.67		--	--	--	--	--			--	--	--	--	--	--
01/30/74	5050	47 F	11.0	8.2	--	--	--	--	--	1.6	0	4	--	--	--	--	--
0800	5050	150	12.42		--	--	--	--	--			--	--	--	--	--	--
02/22/74	5050	9.0C	10.7	7.3	--	--	--	--	--	1.6	0	4	--	--	--	--	--
0740	5050	350	12.54		--	--	--	--	--			--	--	--	--	--	--
03/21/74	5050	13 C	9.6	7.2	--	--	--	--	--	2.7	0	10	--	--	--	--	--
0730	5050	500	12.90		--	--	--	--	--			--	--	--	--	--	--
04/18/74	5050	14 C	9.7	7.7	--	--	--	--	--	2.4	0	5	--	--	--	--	--
0730	5050	400	12.32		--	--	--	--	--			--	--	--	--	--	--
05/24/74	5050	20 C	9.5	7.6	--	--	--	--	--	3.9	0	15	--	--	--	--	--
0800	5050	500	12.40		--	--	--	--	--			--	--	--	--	--	--
06/20/74	5050	20 C	9.0	7.2	--	--	--	--	--	2.6	0	18	--	--	--	--	--
0645	5050	400	12.34		--	--	--	--	--			--	--	--	--	--	--
07/25/74	5050	27 C	7.2	7.6	--	--	--	--	--	5.3	0	29	--	--	--	--	--
0735	5050	900	10.55		--	--	--	--	--			--	--	--	--	--	--
08/22/74	5050	23 C	7.4	7.2	--	--	--	--	--	4.1	0	23	--	--	--	--	--
0750	5050	600	10.45		--	--	--	--	--			--	--	--	--	--	--
08/19/74	5050	19.0C	7.6	7.2	--	--	--	--	--	4.2	0	12	--	--	--	--	--
0700	5050	338	12.84		--	--	--	--	--			--	--	--	--	--	--
RD 7886.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																	
06/11/74	5050	93.0F	15.1	7.8	--	--	--	--	--	--	5	--	--	--	--	--	--
1130	5050	22			--	--	--	--	--	3	5	--	--	--	--	--	--
RD 1400.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																	
10/04/73	5050	57 F		7.4	--	--	--	--	--	2	5	--	--	--	--	--	--
1340	5050				--	--	--	--	--			--	--	--	--	--	--
06/19/74	5050	13.3C	11.2	7.2	--	--	--	--	--	8	5	--	--	--	--	--	--
1020	5050	30			--	--	--	--	--			--	--	--	--	--	--
09/25/74	5050	16.2C	10.2	7.6	--	--	--	--	--	0.3	0	--	--	--	--	--	--
1715	5050	38			--	--	--	--	--	3	5	0	--	--	--	--	--

TABLE D-5 (Cont'd)

## MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP °C	DO mg/L	F-PH L-PH	DISCH MGAS	DEPTH TUPP	T-L CHLOR	PH COLOR	ML/L MG/L	PON SUS S	CAN V SUS S	CYANIDE PHENOLS	TAC DNC	IONIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
R3 2110.10 STANTISLAUS RIVER NE AT CALAVERAS BIG TREES STATE PARK																	
10/04/73	5050 1200	51.5F 5050	11.3	7.2	--	--	--	--	--	11	5	--	--	--	--	--	--
06/19/74	5050 1230	13.0C 20	10.4	7.1	--	--	--	--	--	7	5	--	--	--	--	--	--
09/25/74	5050 1515	17.0C 33	7.5	7.2	--	--	--	--	--	0.9	5	0	--	--	--	--	--
R3 3255.00 STANTISLAUS RIVER MIDDLE FORK AT REARDNSLEY																	
10/04/73	5050 0845	51.5F 5050	11.3	7.4	--	--	--	--	--	2	5	--	--	--	--	--	--
06/19/74	5050 0630	11.4C 28	10.0	7.1	--	--	--	--	--	8	5	--	--	--	--	--	--
09/25/74	5050 0805	14.0C 40	10.1	7.3	--	--	--	--	--	0.4	5	0	--	--	--	--	--
R3 3400.10 STANTISLAUS RIVER MIDDLE FORK AT DARDANVILLE																	
10/04/73	5050 0730	43.0F 5050	11.5	7.2	--	--	--	--	--	2	5	--	--	--	--	--	--
06/19/74	5050 0800	7.0C 23	10.3	7.1	--	--	--	--	--	11	5	--	--	--	--	--	--
09/25/74	5050 1020	11.2C 50	9.7	7.3	--	--	--	--	--	0.9	5	0	--	--	--	--	--
R4 1232.50 WOODS CREEK AT SLATE CREEK																	
10/25/73	5050 1200	55.0F 188	12.4	8.0	--	--	--	--	--	1.5	5	7	--	--	--	--	--
11/15/73	5050 1230	53.5F 5050	11.0	8.0	--	--	--	--	--	1.1	5	13	--	--	--	--	--
R4 1235.50 WOODS CREEK BELOW TOWNSTOWN STP																	
10/25/73	5050 0945	54.0F 210	12.1	7.5	--	--	--	--	--	1.9	5	7	--	--	--	--	--
11/15/73	5050 1145	52.0F 1145	12.5	7.8	--	--	--	--	--	2.8	5	15	--	--	--	--	--
R4 1238.50 WOODS CREEK BELOW SONORA STP																	
10/25/73	5050 0930	52.0F 210	11.9	7.9	--	--	--	--	--	8.1	5	11	--	--	--	--	--
11/15/73	5050 1130	51.0F 5050	7.4	7.7	--	--	--	--	--	5.5	5	16	--	--	--	--	--
R4 1239.50 WOODS CREEK AT COUNTY FAIRBOUNDS																	
10/25/73	5050 0900	52.5F 270	11.7	7.7	1.4	--	--	--	--	0.4	5	6	--	--	--	--	--
11/15/73	5050 1000	52.0F 5050	10.6	8.0	--	--	--	--	--	1.0	5	4	--	--	--	--	--
R4 1241.50 WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA																	
10/25/73	5050 0830	52.0F 5050	7.5	7.3	--	--	--	--	--	0.9	5	4	--	--	--	--	--
11/15/73	5050 0940	56.0F 5050	9.2	7.4	--	--	--	--	--	1.2	5	2	--	--	--	--	--
R4 1200.10 TUOLUMNE RIVER AT WARDS FERRY BRIDGE																	
10/25/73	5050 0900	54 F 15	12.8	6.8	--	--	--	--	--	12	5	--	--	--	--	--	--
09/11/74	5050 1500	27.0C 60	9.6	7.2	--	--	--	--	--	3.2	5	3	--	--	--	--	--
R4 1600.00 TUOLUMNE RIVER ABOVE FAWLY INTAKE																	
10/25/73	5050 1115	54 F 10	12.0	7.0	--	--	--	--	--	4	5	--	--	--	--	--	--
06/05/74	5050 0915	10.2C 10	11.1	7.0	--	--	--	--	--	2	5	--	--	--	--	--	--
09/11/74	5050 1215	15.2C 10	10.3	7.2	--	--	--	--	--	0.5	5	0	--	--	--	--	--
R4 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																	
06/05/74	5050 0645	5.5C 8	9.7	7.0	--	--	--	--	--	4	5	--	--	--	--	--	--
09/11/74	5050 0915	13.0C 28	9.9	7.1	--	--	--	--	--	0.5	5	0	--	--	--	--	--
R5 1320.00 MERCED RIVER AT BAGBY																	
05/08/74	5050 0630	12 C 18	11.7	6.9	--	--	--	--	--	16	5	--	--	--	--	--	--
R5 1410.10 MERCED RIVER ABOVE BRICEBURG																	
05/08/74	5050 0730	8.5C 9	11.1	6.8	--	--	--	--	--	29	5	--	--	--	--	--	--

TABLE D-5 (Cont'd)

## MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP FC	DO G.M.	F-PH L-PM	DISCH MPC	DEPTH TUPE	T+L CHLOR	5FT S H+G ML/L COLOR MG/L	RON SUS S	CON V SUS S	CYANIDE PHENOLS	TDC DOC	10010F T ODOF	BROMINE SULFITE	T SULF O SULF	CC EXT CA EXT
MERCED RIVER BELOW EL PORTAL																
05/08/74	5050	8.0C	11.6	6.4	--	--	--	--	14	5	--	--	--	--	--	--
0810	5050	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																
05/08/74	5050	8.0C	11.8	6.4	--	--	--	--	14	5	--	--	--	--	--	--
0900	5050	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																
05/08/74	5050	6.0C	11.3	6.6	--	--	--	--	11	5	--	--	--	--	--	--
0930	5050	8	6.23	--	--	--	--	--	--	--	--	--	--	--	--	--
BEAR CREEK ABOVE BEAR CREEK RESERVOIR																
02/27/74	5050	53	F 10.7	7.6	--	--	--	--	1.3	2	--	--	--	--	--	--
1100	5050	--	--	--	--	--	--	--	13	5	2	--	--	--	--	--
03/27/74	5050	60	F 10.6	8.0	12	--	--	--	1.6	2	--	--	--	--	--	--
1100	5050	--	--	--	--	--	--	--	15	5	4	--	--	--	--	--
04/24/74	5050	64.0F	10.5	8.2	20	--	--	--	1.6	4	--	--	--	--	--	--
1200	5050	--	--	--	--	--	--	--	12	5	2	--	--	--	--	--
05/23/74	5050	73	F 9.4	8.2	--	--	--	--	1.2	2	--	--	--	--	--	--
1030	5050	--	--	--	--	--	--	--	26	5	0	--	--	--	--	--
BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE																
02/27/74	5050	54	F 9.3	7.5	5	--	--	--	1.3	2	--	--	--	--	--	--
1010	5050	--	--	--	--	--	--	--	7	5	3	--	--	--	--	--
03/27/74	5050	59.0F	9.9	7.4	7	--	--	--	1.3	2	--	--	--	--	--	--
0845	5050	--	--	--	--	--	--	--	14	5	4	--	--	--	--	--
04/24/74	5050	59.0F	9.2	7.6	5	--	--	--	1.6	2	--	--	--	--	--	--
0800	5050	--	--	--	--	--	--	--	9	5	2	--	--	--	--	--
05/23/74	5050	67	F 6.2	7.6	1.1	--	--	--	1.4	2	--	--	--	--	--	--
0745	5050	--	--	--	--	--	--	--	13	5	0	--	--	--	--	--
OWENS CREEK ABOVE OWENS RESERVOIR																
02/27/74	5050	54	F 11.0	7.9	2.5	--	--	--	1.8	2	--	--	--	--	--	--
0825	5050	--	--	--	--	--	--	--	20	5	4	--	--	--	--	--
03/27/74	5050	63	F 12.2	8.2	4	--	--	--	1.6	4	--	--	--	--	--	--
1030	5050	--	--	--	--	--	--	--	38	5	6	--	--	--	--	--
04/24/74	5050	66	F 10.2	8.5	5.0	--	--	--	2.6	2	--	--	--	--	--	--
1125	5050	--	--	--	--	--	--	--	30	5	2	--	--	--	--	--
05/23/74	5050	76.0F	12.4	8.2	3	--	--	--	1.5	5	--	--	--	--	--	--
0945	5050	--	--	--	--	--	--	--	20	5	0	--	--	--	--	--
06/26/74	5050	63	F 5.1	--	--	--	--	--	1.6	2	--	--	--	--	--	--
0630	5050	--	--	--	--	--	--	--	26	5	6	--	--	--	--	--
MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																
02/27/74	5050	52	F 11.5	7.8	15	--	--	--	1.6	2	--	--	--	--	--	--
0845	5050	--	--	--	--	--	--	--	8	5	3	--	--	--	--	--
03/27/74	5050	60	F 10.8	8.0	20	--	--	--	1.9	2	--	--	--	--	--	--
0945	5050	--	--	--	--	--	--	--	13	5	4	--	--	--	--	--
04/24/74	5050	62	F 10.7	8.0	15	--	--	--	1.0	2	--	--	--	--	--	--
1005	5050	--	--	--	--	--	--	--	6	5	0	--	--	--	--	--
05/24/74	5050	71	F 9.2	8.0	10	--	--	--	1.8	2	--	--	--	--	--	--
0900	5050	--	--	--	--	--	--	--	16	5	0	--	--	--	--	--
SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																
06/12/74	5050	92.0F	11.9	7.0	--	--	--	--	8	5	--	--	--	--	--	--
1130	5050	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAN JOAQUIN RIVER BELOW SHAWFLAT CREEK																
06/12/74	5050	92.0F	10.2	7.0	--	--	--	--	6	5	--	--	--	--	--	--
0830	5050	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS																
06/11/74	5050	73.0F	9.5	7.0	--	--	--	--	6	5	--	--	--	--	--	--
0815	5050	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KAWFAH RIVER AT LEMONCOVE																
04/02/74	5050	55.0F	10.9	7.4	--	--	--	--	268	5	36	--	--	--	--	--
1400	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																
04/03/74	5050	49.0F	13.4	8.4	--	--	--	--	26	5	7	--	--	--	--	--
1350	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KERN RIVER AT HART PARK																
04/11/74	5050	55	F 11.8	7.7	--	--	--	--	16	5	4	--	--	--	--	--
0930	5050	122	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KERN RIVER AT RANCHERIA BRIDGE																
04/11/74	5050	53	F 11.7	7.8	--	--	--	--	24	5	4	--	--	--	--	--
0835	5050	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-5 (Cont'd)

## MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP ID	TEMP °C	DO G.M.	F-PH L-PM	DISCH M <sup>3</sup> /S	DEPTH TURB	T-L CM/LP	DO G	ML/L MG/L	ROD SUS S	CON V SUS S	CYANIDE PMFNU/L	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
C1 1115.50 KINGS RIVER NEAR PIEDRA																	
10/10/73	5050	62 F	11.8	7.0	--	--	--	--	--	0	5	--	--	--	--	--	--
1130	5050	25			--	--	--	--	--			--	--	--	--	--	--
05/15/74	5050	15.0C	10.6	7.4	--	--	--	--	--	2	5	--	--	--	--	--	--
1430	5050	30			--	--	--	--	--			--	--	--	--	--	--
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																	
10/10/73	5050	62 F	11.5	7.6	--	--	--	--	--	0	5	--	--	--	--	--	--
1345	5050	100			--	--	--	--	--			--	--	--	--	--	--
05/15/74	5050	17.0C	10.1	7.6	--	--	--	--	--	2	5	--	--	--	--	--	--
1200	5050	60	2.19		--	--	--	--	--			--	--	--	--	--	--
C1 1460.00 KINGS RIVER BELOW NORTH FORK																	
10/10/73	5050	57 F	12.4	7.2	--	--	--	--	--	0	5	--	--	--	--	--	--
1445	5050	50			--	--	--	--	--			--	--	--	--	--	--
05/15/74	5050	11.5C	11.3	7.1	--	--	--	--	--	8	5	--	--	--	--	--	--
1300	5050	15			--	--	--	--	--			--	--	--	--	--	--
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																	
10/10/73	5050	42 F	12.5	7.2	--	--	--	--	--	0	5	--	--	--	--	--	--
0900	5050	25			--	--	--	--	--			--	--	--	--	--	--
05/15/74	5050	5.0C	10.9	6.8	--	--	--	--	--	6	5	--	--	--	--	--	--
0730	5050	9			--	--	--	--	--			--	--	--	--	--	--
C2 1210.30 KAWFAH RIVER ABOVE LAKE KAWFAH																	
04/02/74	5050	52.0F	11.9	7.2	--	--	--	--	--	50	5	8	--	--	--	--	--
1300	5050				--	--	--	--	--				--	--	--	--	--
C2 2010.30 KAWFAH RIVER NORTH FORK NEAR MOUTH																	
04/02/74	5050	49.0F	11.6	7.2	--	--	--	--	--	115	5	15	--	--	--	--	--
1115	5050				--	--	--	--	--				--	--	--	--	--
C2 3147.00 KAWFAH RIVER NF BELOW NO 2 INTAKE NR THREE RIVERS																	
04/02/74	5050	45.0F	12.6	7.4	--	--	--	--	--	18	5	2	--	--	--	--	--
1015	5050				--	--	--	--	--				--	--	--	--	--
C2 4201.50 KAWFAH RIVER SOUTH FORK ABOVE GROUSE CREEK																	
04/02/74	5050	47.0F	11.4	7.2	--	--	--	--	--	16	5	8	--	--	--	--	--
1200	5050				--	--	--	--	--				--	--	--	--	--
C3 1029.30 TULE RIVER BELOW SPRINGVILLE																	
04/03/74	5050	49.0F	12.7	7.6	--	--	--	--	--	34	5	9	--	--	--	--	--
1230	5050				--	--	--	--	--				--	--	--	--	--
C3 2140.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																	
04/03/74	5050	48.0F	12.3	7.2	--	--	--	--	--	14	5	6	--	--	--	--	--
1110	5050				--	--	--	--	--				--	--	--	--	--
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL																	
04/03/74	5050	44.0F	12.7	7.6	--	--	--	--	--	21	5	6	--	--	--	--	--
1040	5050				--	--	--	--	--				--	--	--	--	--
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																	
04/03/74	5050	48.0F	12.6	7.3	--	--	--	--	--	88	5	12	--	--	--	--	--
1315	5050				--	--	--	--	--				--	--	--	--	--
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																	
04/10/74	5050	53 F	11.9	4.4	--	--	--	--	--	7	5	2	--	--	--	--	--
1420	5050	110			--	--	--	--	--				--	--	--	--	--
C5 1500.00 KERN RIVER AT KERNVILLE																	
04/10/74	5050	44 F	12.2	7.4	--	--	--	--	--	7	5	1	--	--	--	--	--
1210	5050	60			--	--	--	--	--				--	--	--	--	--
C5 1660.10 KERN RIVER ABOVE FAIRVIEW																	
04/10/74	5050	40 F	12.1	7.4	--	--	--	--	--	8	5	1	--	--	--	--	--
1015	5050	42			--	--	--	--	--				--	--	--	--	--
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																	
04/10/74	5050	53 F	10.4	7.2	--	--	--	--	--	25	5	4	--	--	--	--	--
1320	5050	175			--	--	--	--	--				--	--	--	--	--

TABLE D-6

## Nutrient Constituents of Surface Water

Table D-6 presents analyses which do not appear on Tables D-2, D-3, D-4, D-5, and D-7. Definitions of abbreviations used in this table are as follows:

Abbreviations

EC	Specific Electrical Conductance in Micromhos
TURB	Turbidity in Turbidity Units
HCO <sub>3</sub>	Bicarbonate
CO <sub>3</sub>	Carbonate
pH	Measurement of Acidity or Alkalinity of Water
NO <sub>2</sub>	Nitrite as N
NO <sub>3</sub>	Nitrate as N
NH <sub>3</sub>	Ammonia as N
OrgN	Organic Nitrogen
NH <sub>3</sub> + OrgN	Ammonia plus Organic Nitrogen as N (total Kjeldahl)
F PO <sub>4</sub>	Dissolved Orthophosphate as P
U PO <sub>4</sub>	Total Orthophosphate as P
U TOTP	Total Phosphate as P

NUTRIENT ANALYSIS OF SURFACE WATER

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TABLE D-6 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER																				
DATE TIME	SAMP LAB	G.W. DISCH.	TEMP DEPTH	LABORATORY PH	FIELD FC	FIELD ANALYSIS					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER									
						TURB	CaCO3	P	HCO3	NH3	NH3	F	NO3	N	U	NO3	N	U	NO3	N
STANISLAUS RIVER NE AT CALAVERAS BIG TRESS STATE DAM																				
10/04/73	5050		51.5F	7.2								0.01	--	--	--	0.00	--	--	--	--
1200	5050			44								0.00	--	--	0.2	--	--	--	--	0.00
06/19/74	5050		13.0C	7.1	20							0.00	--	--	--	0.00	--	--	--	--
1230	5050			25								0.01	--	--	0.1	--	--	--	--	0.01
09/25/74	5050		17.0C	7.2	33							--	--	--	--	0.00	--	--	--	--
1515	5050											0.00	--	--	0.2	--	--	--	--	0.01
STANISLAUS RIVER MIDDLE FORK AT BEAVERCREEK																				
10/04/73	5050		51.5F	7.4								0.00	--	--	--	0.00	--	--	--	--
0845	5050			51								0.00	--	--	0.1	--	--	--	--	0.01
06/19/74	5050		11.4C	7.1	24							0.00	--	--	--	0.01	--	--	--	--
0630	5050			17								0.02	--	--	0.0	--	--	--	--	0.01
09/25/74	5050		14.0C	7.3	46							--	--	--	--	0.00	--	--	--	--
0805	5050											0.01	--	--	0.1	--	--	--	--	0.01
STANISLAUS RIVER MIDDLE FORK AT OAKDALE																				
10/04/73	5050		43.7F	7.2								0.00	--	--	--	0.00	--	--	--	--
0730	5050			66								0.00	--	--	0.2	--	--	--	--	0.01
06/19/74	5050		7.0C	7.1	23							0.00	--	--	--	0.00	--	--	--	--
0800	5050			34								0.02	--	--	0.0	--	--	--	--	0.02
09/21/74	5050		11.2C	7.3	56							--	--	--	--	0.00	--	--	--	--
1020	5050											0.00	--	--	0.2	--	--	--	--	0.01
WOODS CREEK AT SLATE CREEK																				
10/25/73	5050		55.0F	7.0	184	20						0.03	0.5	--	--	0.65	--	--	--	--
1200	5050											0.01	0.61	--	--	--	--	--	--	0.68
11/15/73	5050		53.5F	7.0								0.03	--	--	--	0.49	--	--	--	--
1230	5050											0.02	1.1	0.5	0.52	--	--	--	--	0.49
WOODS CREEK BELOW JAMESTOWN STP																				
10/25/73	5050		54.0F	7.2	210	30						0.21	0.4	--	--	0.92	--	--	--	--
0845	5050											0.14	0.81	--	--	--	--	--	--	0.96
11/15/73	5050		52.0F	7.4								0.07	--	--	--	0.76	--	--	--	--
1145	5050											1.2	0.5	0.76	--	--	--	--	--	0.81
WOODS CREEK BELOW SONOMA STP																				
10/25/73	5050		52.0F	7.9	210	40						0.92	0.4	--	--	1.2	--	--	--	--
0930	5050											0.61	--	--	--	--	--	--	--	1.3
11/15/73	5050		51.0F	7.7								0.06	--	--	--	0.75	--	--	--	--
1130	5050											0.64	0.6	2.0	--	--	--	--	--	0.76
WOODS CREEK AT COUNTY FAIRGROUNDS																				
10/25/73	5050		52.5F	7.7	270	20						0.01	0.2	--	--	0.03	--	--	--	--
0900	5050		1.4									0.34	--	--	--	--	--	--	--	0.04
11/15/73	5050		52.0F	7.0								0.00	--	--	--	0.02	--	--	--	--
1000	5050											0.00	0.55	0.1	0.1	--	--	--	--	0.03
WOODS CREEK AT JACK RABBIT ROAD ABOVE SONOMA																				
10/25/73	5050		52.0F	7.3	200	20						0.00	0.2	--	--	0.01	--	--	--	--
0830	5050											0.13	--	--	--	--	--	--	--	0.09
11/15/73	5050		56.0F	7.4								0.00	--	--	--	0.01	--	--	--	--
0940	5050											0.32	0.2	0.21	--	--	--	--	--	0.02
TUOLUMNE RIVER AT WAKES FERRY BRIDGE																				
10/25/73	5050		54 F	6.4	15							0.00	--	--	--	0.00	--	--	--	--
0800	5050			14								0.00	--	--	0.1	--	--	--	--	0.02
09/11/74	5050		27.0C	7.2	60							--	--	--	--	0.00	--	--	--	--
1500	5050											0.00	--	--	0.4	--	--	--	--	0.02
TUOLUMNE RIVER ABOVE FAMILY INTAKE																				
10/25/73	5050		54 F	7.0	10							0.00	--	--	--	0.00	--	--	--	--
1115	5050			11								0.00	--	--	0.1	--	--	--	--	0.00
06/05/74	5050		10.2C	7.0	10							0.00	--	--	--	0.00	--	--	--	--
0815	5050			11								0.01	--	--	0.1	--	--	--	--	0.00
09/11/74	5050		15.2C	7.2	10							--	--	--	--	0.00	--	--	--	--
1215	5050											0.03	--	--	0.0	--	--	--	--	0.00
TUOLUMNE RIVER AT TUOLUMNE MEADOWS																				
06/05/74	5050		5.5C	7.4	8							0.00	--	--	--	0.00	--	--	--	--
0645	5050			11								0.01	--	--	0.1	--	--	--	--	0.00
09/11/74	5050		13.0C	7.1	28							--	--	--	--	0.00	--	--	--	--
0815	5050											0.00	--	--	0.1	--	--	--	--	0.00
MERCED RIVER AT RAGBY																				
05/08/74	5050		12.0C	6.9	18							0.00	--	--	--	0.02	--	--	--	--
0630	5050			13								0.03	--	--	0.2	--	--	--	--	0.04

TABLE D-6 (Cont'd)

		NUTRIENT ANALYSIS OF SURFACE WATER										NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER												
DATE TIME	SAMP LAB	DISCH.	TEMP (F)	PH	FIELD					LAB					F ARG N	U ARG N	F NH3	U NH3	DIS A.H. <sub>2</sub> PO <sub>4</sub>	F H <sub>3</sub> PO <sub>4</sub>	U H <sub>3</sub> PO <sub>4</sub>	F TOT P	U TOT P	REM
					PC	F-CO <sub>2</sub>	CACO <sub>3</sub>	T	CO <sub>3</sub>	NH <sub>3</sub>	NO <sub>2</sub>	NO <sub>3</sub>	II ORG N	U ORG N										
45 1410.10 MERCED RIVER ABOVE HWICHEBURG																								
05/08/74	5050	10.60	5.40	6.4	9						0.00	--	--	--	--	--	--	0.00	--	--	--	--		
0710	5050				11						0.04	--	--	0.1	--	--	--	--	--	--	0.03			
45 1517.10 MERCED RIVER BELOW FL PORTAL																								
05/08/74	5050		4.00	6.4	8						0.00	--	--	--	--	--	--	0.02	--	--	--	--		
0810	5050				4						0.04	--	--	0.1	--	--	--	--	--	--	0.03			
45 1514.50 MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																								
05/08/74	5050		4.00	6.4	4						0.00	--	--	--	--	--	--	0.00	--	--	--	--		
0900	5050				10						0.04	--	--	0.1	--	--	--	--	--	--	0.02			
45 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																								
05/08/74	5050	6.27	4.00	6.4	8						0.00	--	--	--	--	--	--	0.00	--	--	--	--		
0930	5050				6						0.04	--	--	0.1	--	--	--	--	--	--	0.02			
45 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																								
02/27/74	5050	7	51	F	1.6						--	--	--	--	--	--	--	--	--	--	--	--		
1100	5050										0.01	0.02	0.1	0.11	--	--	--	--	--	--	0.04			
03/27/74	5050	12	60	F	1.7						--	--	--	--	--	--	--	--	--	--	--	--		
1100	5050										0.00	0.00	0.1	0.1	--	--	--	--	--	--	0.02			
04/24/74	5050	20	64.0F	1.2							--	--	--	--	--	--	--	--	--	--	--	--		
1200	5050										0.00	0.02	0.2	0.2	--	--	--	--	--	--	0.03			
05/23/74	5050	3	73	F	1.2						--	--	--	--	--	--	--	--	--	--	--	--		
1030	5050										0.00	0.01	0.2	0.2	--	--	--	--	--	--	0.02			
45 6152.51 BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE																								
02/27/74	5050	5	54.0F	1.5							--	--	--	--	--	--	--	--	--	--	--	--		
1010	5050										0.01	0.02	0.2	0.21	--	--	--	--	--	--	0.04			
03/27/74	5050	7	54.0F	1.5							--	--	--	--	--	--	--	--	--	--	--	--		
0845	5050										0.00	0.01	0.2	0.2	--	--	--	--	--	--	0.03			
04/24/74	5050	5	54.0F	1.6							--	--	--	--	--	--	--	--	--	--	--	--		
0800	5050										0.00	0.05	0.3	0.3	--	--	--	--	--	--	0.04			
05/23/74	5050	0.1	67	F	1.5						--	--	--	--	--	--	--	--	--	--	--	--		
0745	5050										0.00	0.01	0.2	0.2	--	--	--	--	--	--	0.02			
45 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																								
02/27/74	5050	2.5	54	F	1.5						--	--	--	--	--	--	--	--	--	--	--	--		
0825	5050										0.01	0.02	0.3	0.31	--	--	--	--	--	--	0.04			
03/27/74	5050	8	63.0F	1.2							--	--	--	--	--	--	--	--	--	--	--	--		
1030	5050										0.00	0.00	0.3	0.3	--	--	--	--	--	--	0.05			
04/24/74	5050	4	65	F	1.5						--	--	--	--	--	--	--	--	--	--	--	--		
1125	5050										0.01	0.01	0.4	0.41	--	--	--	--	--	--	0.04			
05/23/74	5050	3	76	F	1.2						--	--	--	--	--	--	--	--	--	--	--	--		
0945	5050										0.00	0.01	0.4	0.4	--	--	--	--	--	--	0.02			
06/26/74	5050	0.3	67	F							--	--	--	--	--	--	--	--	--	--	--	--		
0630	5050										0.03	0.01	0.4	0.43	--	--	--	--	--	--	0.03			
45 2200.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																								
02/27/74	5050	15	52.0F	1.4							--	--	--	--	--	--	--	--	--	--	--	--		
0845	5050										0.01	0.02	0.2	0.21	--	--	--	--	--	--	0.03			
03/27/74	5050	20.0	60.0F	1.0							--	--	--	--	--	--	--	--	--	--	--	--		
0945	5050										0.00	0.00	0.2	0.2	--	--	--	--	--	--	0.06			
04/24/74	5050	15	62	F	1.7						--	--	--	--	--	--	--	--	--	--	--	--		
1125	5050										0.00	0.02	0.2	0.2	--	--	--	--	--	--	0.04			
05/23/74	5050	10	71.0F	1.0							--	--	--	--	--	--	--	--	--	--	--	--		
0900	5050										0.02	0.01	0.3	0.32	--	--	--	--	--	--	0.04			
47 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																								
10/17/73	5050	60	4	0.4	30						--	--	--	--	--	--	--	0.00	--	--	--	--		
0750	5050				24						0.01	--	--	0.1	--	--	--	--	--	--	0.01			
06/12/74	5050	92.0F	1.0		16						--	--	--	--	--	--	--	0.00	--	--	--	--		
1130	5050				17						0.01	--	--	0.1	--	--	--	--	--	--	0.01			
47 1532.50 SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK																								
10/17/73	5050	61	F	1.2	50						--	--	--	--	--	--	--	0.00	--	--	--	--		
1210	5050				55						0.01	--	--	0.1	--	--	--	--	--	--	0.01			
06/12/74	5050	92.0F	1.0		15						--	--	--	--	--	--	--	0.00	--	--	--	--		
0830	5050				17						0.00	--	--	0.1	--	--	--	--	--	--	0.01			
47 4250.50 SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS																								
10/16/73	5050	44	F	1.7	32						--	--	--	--	--	--	--	0.00	--	--	--	--		
0845	5050				33						0.00	--	--	0.1	--	--	--	--	--	--	0.00			
06/11/74	5050	73.0F	1.0		8						--	--	--	--	--	--	--	0.00	--	--	--	--		
0815	5050				8						0.02	--	--	0.0	--	--	--	--	--	--	0.00			
40 2550.30 KAMFAH RIVER AT LEMONCOVE																								
04/02/74	5050	55	F	1.4							--	--	--	--	--	--	--	0.12	--	--	--	--		
1400	5050				124						0.00	--	--	0.9	--	--	--	--	--	--	0.33			
40 3145.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																								
04/03/74	5050	49.0F	1.4								--	--	--	--	--	--	--	0.01	--	--	--	--		
1750	5050				186						0.00	--	--	0.3	--	--	--	--	--	--	0.03			

TABLE D-6 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER																		
		FIELD			LAB			NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER										
DATE	SAMP	G.H.	TEMP	LABORATORY	TURB	CAC03	P	HC03	F (NH3)			DIS		F H3PO4		F TOT P		
TIME	LAB	INCH	DEPTH	PH	EC	F-C02	CAC03	T	CO3	NH3	F	OPG N	F (NH3)	U OPG N	U H3PO4	U TOT P	P REM	
.....																		
		C0 5160.10 KERN RIVER AT HART PARK																
04/11/74	5050		55	F	7.7		122			0.00	--	--				0.03	--	
0930	5050						155			0.06	--	0.3	--			--	0.04	
		C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE																
04/11/74	5050		53	F	7.8		120			0.00	--	--				0.02	--	
0835	5050						156			0.11	--	0.3	--			--	0.06	
		C1 1115.50 KINGS RIVER NEAR PIEDRA																
10/10/73	5050		62	F	7.0		25			0.00	--	--				0.00	--	
1130	5050						27			0.04	--	0.1	--			--	0.00	
05/15/74	5050		15.00		7.4		30			0.00	--	--				0.00	--	
1430	5050						34			0.00	--	0.1	--			--	0.02	
		C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																
10/10/73	5050		62	F	7.6		100			0.00	--	--				0.00	--	
1345	5050						124			0.01	--	0.3	--			--	0.01	
05/15/74	5050	2.19	17.00		7.6		60			0.00	--	--				0.01	--	
1200	5050						65			0.01	--	0.1	--			--	0.02	
		C1 1460.00 KINGS RIVER BELOW NORTH FORK																
10/10/73	5050		57	F	7.2		50			0.00	--	--				0.00	--	
1445	5050						54			0.01	--	0.1	--			--	0.00	
05/15/74	5050		11.50		7.1		15			0.00	--	--				0.00	--	
1300	5050						18			0.04	--	0.1	--			--	0.01	
		C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																
10/10/73	5050		42	F	7.2		25			0.00	--	--				0.01	--	
0800	5050						49			0.01	--	0.0	--			--	0.01	
05/15/74	5050		5.00		6.8		9			0.00	--	--				0.00	--	
0730	5050						15			0.03	--	0.0	--			--	0.01	
		C2 1210.30 KAWFAH RIVER ABOVE LAKE KAWFAH																
04/02/74	5050		52	F	7.2					0.01	--	--				0.03	--	
1300	5050						76			0.08	--	0.4	--			--	0.08	
		C2 2010.30 KAWFAH RIVER NORTH FORK NEAR MOUTH																
04/02/74	5050		49	F	7.2					0.01	--	--				0.04	--	
1115	5050						77			0.10	--	0.5	--			--	0.14	
		C2 3147.00 KAWFAH RIVER NE BELOW NO 2 INTAKE NW THREE RIVERS																
04/02/74	5050		45	F	7.4					0.02	--	--				0.01	--	
1015	5050						53			0.06	--	0.2	--			--	0.02	
		C2 4201.50 KAWFAH RIVER SOUTH FORK ABOVE GHOUSE CREEK																
04/02/74	5050		47	F	7.2					0.00	--	--				0.01	--	
1200	5050						63			0.08	--	0.3	--			--	0.04	
		C3 1929.30 TULE RIVER BELOW SPRINGVILLE																
04/03/74	5050		49.0F		7.6					0.00	--	--				0.02	--	
1230	5050						114			0.11	--	0.2	--			--	0.04	
		C3 2150.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																
04/03/74	5050		48.0F		7.2					0.01	--	--				0.01	--	
1110	5050						61			0.12	--	0.2	--			--	0.02	
		C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILLE																
04/03/74	5050		44.0F		7.6					0.01	--	--				0.00	--	
1040	5050						128			0.05	--	0.2	--			--	0.03	
		C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																
04/03/74	5050		44.0F		7.3					0.00	--	--				0.02	--	
1315	5050						94			0.29	--	0.4	--			--	0.12	
		C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																
04/10/74	5050		53	F	8.4		110			0.00	--	--				0.02	--	
1420	5050						141			0.02	--	0.2	--			--	0.03	
		C5 1509.00 KERN RIVER AT KERNVILLE																
04/10/74	5050		44	F	7.4		80			0.00	--	--				0.01	--	
1210	5050						86			0.02	--	0.1	--			--	0.02	
		C5 1660.10 KERN RIVER ABOVE FAIRVIEW																
04/10/74	5050		40	F	7.4		42			0.00	--	--				0.01	--	
1015	5050						84			0.05	--	0.1	--			--	0.02	
		C5 3110.10 KERN RIVER SOUTH FORK NEAR VELOON																
04/10/74	5050		53	F	7.2		175			0.00	--	--				0.04	--	
1320	5050						169			0.02	--	0.3	--			--	0.11	

TABLE D-7

PESTICIDES IN SURFACE WATER

Table D-7 represents the pesticides found in the San Joaquin Valley floor. The samples were collected and analyzed by the Department of Water Resources.

TABLE D-7

PESTICIDES IN SURFACE WATER											REMARKS
DATE TIME	SAMP LAB	TEMP EC	DO -M	S.M. OF DISCHARGE	COMPOUNDS REPORTED IN NANOGRAMS/LITER				OTHER		
					CHLORINATED HYDROCARBON	ORGANIC	PHOSPHORUS				
R0 0479.00					SALT SLOUGH NE STEVINSON						
05/23/74	5050	21	C		50 UNKNOWN	310 DIAZINON	25 PHOSORIN				
0945	5050	1900	7.2			60 UNKNOWN					
08/21/74	5050	24	C		770 UNKNOWN	NONE DETECTED					
1030	5050	1100	7.4								
R0 7020.00					SAN JOAQUIN RIVER NEAR VERNALIS						
05/24/74	5050	20	C	2.5 12.40	140 DACTHAL	10 DIAZINON					
0800		500	7.6								
08/22/74	5050	23	C	7.4 10.95	90 UNKNOWN	NONE DETECTED					
0750	5050	600	7.2								
R0 7375.00					SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE						
05/23/74	5050	21	C		45 UNKNOWN	60 PHOSATE	60 DIAZINON				
1000	5050	1100	7.3			10 UNKNOWN					
08/21/74	5050	25	C		40 UNKNOWN	NONE DETECTED					
1055	5050	1200	6.0								



~~MINERAL ANALYSES OF~~ GROUND WATER QUALITY

This table presents data resulting from the collection and analyses of ground water by various agencies and laboratories cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation:

5050 California Department of Water Resources  
5060 California Department of Health  
5119 Kern County Health Department  
5121 Kern County Water Agency  
5129 Kings County Water District  
5205 City of Delano  
5647 Tehachapi-Cummings Water District  
5701 California Water Service Company  
5702 Individual Owner  
5703 Valley Waste Disposal Company  
5720 Bakeman Water Company  
5801 Braun, Skaggs, Kevorkian and Simons Laboratory  
5802 Twining Laboratory  
5803 Hornkohl Laboratory  
5806 B. C. Laboratory  
5819 Brown and Caldwell Laboratory

Chemical Symbols

B	Boron	K	Potassium
CA	Calcium	Mg	Magnesium
Cl	Chloride	NA	Sodium
CO <sub>3</sub>	Carbonate	NO <sub>3</sub>	Nitrate
F	Fluoride	SiO <sub>2</sub>	Silica
HCO <sub>3</sub>	Bicarbonate	SO <sub>4</sub>	Sulfate

Abbreviations

EC	Specific Electrical Conductance	TEMP	Water Temperature at Time of Field Sampling
NCH	Non-Carbonate Hardness	F	Fahrenheit
SAR	Sodium Adsorption Ratio	C	Celsius
SUM	Sum of Mineral Constituents	TIME	Pacific Standard Time on a 24-Hour Clock
TH	Total Hardness	PH	Measure of Acidity or Alkalinity
TDS	Total Dissolved Solids	TURB	Turbidity in Turbidity Units
REM	Remarks as follows:		

- T Indicates the TDS does not fall within 20 percent of the calculated SUM of the constituents.
- E Indicates the TDS value is not within the range of 0.35 to 0.70 of the lab electrical conductivity.
- S Indicates the anion sum and cation sum for a complete analysis are not within the prescribed tolerance of  $\pm 5$  percent.
- C Indicates the lab electrical conductivity divided by the EC-EPM factor (or if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for a complete analysis.
- X Indicates the field electrical conductivity and the lab electrical conductivity are not within 20 percent of each other.



## INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the <sup>1974</sup>~~1973~~ water year (October 1, <sup>1973</sup>~~1972~~, through September 30, <sup>1974</sup>~~1973~~). These data were obtained from analyses of water samples from approximately 500 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 123. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e., 15S/22E-27K80M.

~~APPENDIX E~~  
~~GROUND WATER QUALITY DATA~~

TABLE E-1

## MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F SIO2	TOS SUM	TH NCH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
7/06/74 1500	5050 5050				7.7	1320	67	18	188	2.8	0	446	--	128	--	--	--	740	243	5.3
							26	11	63	.07	.00	7.31		3.61		--			0	
11/11/74	5701 5701	67 F 19 C	9.1	291	31	4.0	22	2.9	1.2	137	9.0	16	8.0	--	.1	183	96	1.0		
					53	11	33	.07	.04	2.25	.19	.45	.13	21.0	182	0				
1/15/74	5701 5701	69 F 21 C	8.2	161	16	.0	17	1.3	.8	72	4.0	10	6.0	--	.1	107	42	1.2		
					.80	.00	.74	.03	.03	1.18	.08	.28	.10	--	91	0				
2/20/74	5701 5701				--	--	--	--	--	--	--	--	--	.17	--					
5/15/74	5701 5701				8.0	244	26	3.0	16	2.2	.6	87	7.0	20	9.0	--	.2	150	77	0.8
							56	.25	.70	.06	.02	1.43	.15	.56	.15	24.0	151	5		
10/10/74	5701 5701	71 F 22 C	7.7	205	20	2.0	16	2.0	.3	75	5.0	18	9.0	--	.1	131	60	0.9		
					52	.16	.70	.05	.01	1.23	.10	.51	.15	21.0	130	0				
11/11/74	5701 5701	67 F 19 C	8.2	248	27	4.0	17	2.5	1.0	103	7.0	20	8.0	--	.1	164	84	0.8		
					54	.33	.74	.06	.03	1.69	.15	.56	.13	26.0	163	0				
5/15/74	5701 5701	69 F 21 C	8.2	147	10	1.0	18	1.3	.7	62	4.0	8.0	4.0	--	.2	95	30	1.5		
					.50	.08	.78	.03	.02	1.02	.08	.23	.06	18.0	95	0				
5/15/74	5701 5701	69 F 21 C	8.0	294	31	5.0	20	2.8	.8	118	8.0	23	9.0	--	.1	184	100	0.9		
					53	.41	.87	.07	.03	1.93	.17	.65	.15	25.0	183	0				
8/10/74	5701 5701	70 F 21 C	7.9	304	33	3.0	24	2.4	.6	116	12	21	20.0	--	--	194	94	1.1		
					55	.25	1.04	.06	.02	1.90	.25	.59	.32	20.0	193	0				
11/11/74	5701 5701	69 F 21 C	8.5	201	18	1.0	20	1.9	1.7	79	7.0	14	9.0	--	.1	130	52	1.2		
					.90	.08	.87	.05	.06	1.29	.15	.39	.15	18.0	129	0				
9/15/74	5701 5701	72 F 22 C	8.0	264	28	3.0	19	2.1	.7	96	8.0	21	9.0	--	.1	160	81	0.9		
					55	.25	.83	.05	.02	1.57	.17	.59	.15	22.0	160	3				
9/15/74	5701 5701	70 F 21 C	8.0	394	44	7.0	21	2.9	.9	137	12	36	15.0	--	.1	235	139	0.8		
					59	.58	.91	.07	.03	2.25	.25	1.02	.24	28.0	234	25				
8/06/74	5701 5701	71 F 22 C	8.5	140	12	.0	17	1.4	1.1	53	4.0	8.0	8.0	--	.1	97	30	1.4		
					.60	.00	.74	.04	.04	.87	.08	.23	.13	20.0	98	0				
5/15/74	5701 5701	65 F 18 C	7.6	186	23	1.0	14	.7	.2	92	5.0	7.0	8.0	--	.2	119	62	0.8		
					62	.08	.61	.02	.01	1.51	.10	.20	.13	15.0	119	0				
2/27/74	5701 5701	66 F 19 C	7.7	410	60	7.0	14	1.2	.7	201	9.0	14	22.0	--	.1	254	180	0.5		
					71	.58	.61	.03	.02	3.29	.19	.39	.35	28.0	255	13				
2/27/74	5701 5701	66 F 19 C	7.6	422	61	9.0	12	1.1	.5	202	10	14	25.0	--	.2	261	190	0.4		
					70	.74	.52	.03	.02	3.31	.21	.39	.40	30.0	262	23				
10/01/74	5701 5701				--	--	--	--	--	--	--	--	--	.06	--					
6/12/74	5701 5701	66 F 19 C	7.9	188	23	.0	15	1.3	.5	94	5.0	8.0	5.0	--	.1	122	60	0.9		
					63	.00	.65	.03	.02	1.54	.10	.23	.08	18.0	122	0				

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					RE
					CA	MG	NA	K	CO3	PERCENT MCO3	PERCENT RF	PERCENT CL	PERCENT NO3	PERCENT VALUE	8	F	TDS SUM	TH NCH	SAR					
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
06/12/74	5701	185/24E-36C01	M	66	F		16	3.0	16	1.3	.5	87	5.0	8.0	3.0	--	.1	112	54					
	5701		19	C	7.9	175	.80 45	.25 14	.70 39	.03 2	.02 1	1.43 78	.10 5	.23 13	.05 3	16.0	112	0	1.0					
06/12/74	5701	185/24E-36E01	M	66	F		31	1.0	16	1.5	.4	109	7.0	12	8.0	--	.1	149	82					
	5701		19	C	7.7	234	1.55 65	.08 3	.70 30	.04 2	.01 2	1.79 74	.15 6	.34 14	.13 5	18.0	148	0	0.8					
09/24/74	5701	185/24E-36K01	M	66	F		28	2.0	14	1.4	.6	106	6.0	8.0	6.0	--	--	136	79					
	5701		19	C	7.9	221	1.40 63	.16 7	.61 28	.04 2	.02 1	1.74 79	.12 5	.23 10	.10 5	18.0	136	0	0.7					
09/24/74	5701	185/25E-14N01	M	65	F		31	5.0	7.0	1.0	.2	112	7.0	5.0	7.0	--	--	151	96					
	5701		18	C	7.4	228	1.55 68	.41 18	.30 13	.03 1	.01 1	1.84 82	.15 7	.14 6	.11 5	32.0	150	6	0.3					
09/24/74	5701	185/25E-19N01	M	66	F		23	2.0	13	1.4	.9	96	4.0	5.0	7.0	--	.1	121	65					
	5701		19	C	8.2	190	1.15 60	.16 8	.57 30	.04 2	.03 2	1.57 81	.08 4	.14 7	.11 6	18.0	122	0	0.7					
02/27/74	5701	185/25E-19001	M	65	F		23	1.0	10	1.2	.6	95	7.0	6.0	1.0	.00	.1	112	65					
	5701		18	C	8.0	181	1.15 68	.08 5	.44 26	.03 2	.02 1	1.56 85	.06 3	.17 9	.02 1	18.0	111	0	0.6					
01/24/74	5701	185/25E-20E01	M	64	F		38	6.0	11	.9	.4	153	6.0	7.0	10.0	--	.1	179	122					
	5701		18	C	7.6	283	1.90 66	.49 17	.48 17	.02 1	.01 1	2.51 84	.12 4	.20 7	.16 5	24.0	179	0	0.4					
01/31/74	5701	185/25E-27N01	M	64	F		22	2.0	12	1.1	.6	94	4.0	6.0	4.0	--	.1	118	64					
	5701		18	C	8.0	179	1.10 61	.16 9	.52 29	.03 2	.02 1	1.54 82	.08 4	.17 9	.06 3	19.0	117	0	0.7					
03/01/74	5701				--	--	--	--	--	--	--	--	--	--	--	.00	--							
03/01/74	5701	185/25E-27P01	M			--	--	--	--	--	--	--	--	--	--	.03	--							
05/03/74	5701		64	F		20	2.0	14	1.1	.4	89	6.0	6.0	7.0	--	.1	122	60						
	5701		18	C	7.8	176	1.00 56	.16 9	.61 34	.03 2	.01 1	1.46 78	.12 6	.17 9	.11 6	22.0	122	0	0.8					
04/23/74	5701	185/25E-28D01	M	63	F		26	1.0	10	1.1	.7	101	4.0	4.0	6.0	--	.1	121	72					
	5701		17	C	8.0	182	1.30 70	.08 4	.44 24	.03 2	.02 1	1.66 84	.08 4	.11 6	.10 5	19.0	121	0	0.5					
08/19/74	5701	185/25E-28L01	M	66	F		34	5.0	11	1.3	.3	131	8.0	8.0	3.0	--	.1	161	106					
	5701		19	C	7.5	255	1.70 65	.41 16	.48 18	.03 1	.01 1	2.15 82	.17 7	.23 9	.05 2	26.0	161	0	0.5					
08/19/74	5701	185/25E-29801	M	68	F		22	2.0	12	1.3	.3	97	4.0	5.0	.0	--	.1	114	66					
	5701		20	C	7.6	177	1.10 61	.16 9	.52 29	.03 2	.01 1	1.59 87	.08 4	.14 8	.00	18.0	112	0	0.7					
04/23/74	5701	185/25E-29C01	M	64	F		26	2.0	9.0	.9	.7	96	6.0	6.0	3.0	--	--	124	74					
	5701		18	C	8.0	184	1.30 70	.16 9	.39 21	.02 1	.02 1	1.57 81	.12 6	.17 9	.05 3	23.0	124	0	0.5					
04/23/74	5701	185/25E-29R01	M	64	F		34	1.0	11	1.2	.7	120	5.0	7.0	6.0	--	.1	148	90					
	5701		18	C	8.0	229	1.70 74	.08 3	.48 21	.03 1	.02 1	1.97 82	.10 4	.20 8	.10 4	22.0	147	0	0.5					
06/12/74	5701	185/25E-30F01	M	65	F		21	2.0	13	1.2	.4	94	4.0	5.0	4.0	--	.1	116	62					
	5701		18	C	7.8	175	1.05 58	.16 9	.57 31	.03 2	.01 1	1.54 84	.08 4	.14 8	.06 3	18.0	115	0	0.7					
09/24/74	5701	185/25E-30H01	M	66	F		44	6.0	14	1.3	.8	157	11	10	11.0	--	--	200	133					
	5701		19	C	7.9	323	2.20 66	.49 15	.61 18	.03 1	.03 1	2.57 78	.23 7	.28 9	.18 5	25.0	200	5	0.5					
09/24/74	5701	185/25E-30H2	M	66	F		44	6.0	14	1.3	.5	160	8.0	10	12.0	--	.1	201	135					
	5701		19	C	7.7	328	2.20 66	.49 15	.61 18	.03 1	.02 1	2.62 80	.17 5	.28 9	.19 6	26.0	200	3	0.5					

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER EQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER					REM
				CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	8	F	TO5 SUM	TH NCH	SAR	
CENTRAL VALLEY SAN JOAQUIN VALLEY																		
1/19/74	5701			185/25E-30N01 M														
	5701				8.0	190	1.20	.08	.61	.04	.02	1.54	.10	.25	.03	2	121	66
1/15/74	5701	66 F 19 C	7.8	185/25E-30R02 M														
	5701				270	1.80	.16	.65	.03	.02	2.02	.23	.28	.15	6	163	100	0.7
1/12/74	5701																	
	5701				--	--	--	--	--	--	--	--	.00	--				
1/23/74	5701	65 F 18 C	7.9	185/25E-31B01 M														
	5701				217	1.55	.08	.57	.03	.02	1.79	.12	.25	.10	4	142	82	0.6
1/24/74	5701		7.9	185/25E-31B03 M														
	5701				214	1.40	.08	.57	.04	.02	1.59	.15	.23	.10	5	132	75	0.7
1/19/74	5701	68 F 20 C	7.9	185/25E-31E01 M														
	5701				226	1.55	.16	.57	.04	.02	1.79	.12	.28	.08	3	140	86	0.6
2/27/74	5701	63 F 17 C	7.8	185/25E-31K01 M														
	5701				241	1.65	.16	.61	.04	.02	1.88	.15	.34	.10	4	151	91	0.6
5/15/74	5701	65 F 18 C	7.8	185/25E-31R01 M														
	5701				218	1.40	.16	.61	.03	.02	1.82	.12	.20	.11	5	138	80	0.7
4/23/74	5701	65 F 18 C	7.9	185/25E-32E01 M														
	5701				193	1.35	.08	.52	.03	.02	1.70	.08	.17	.08	4	126	72	0.6
3/01/74	5701			185/25E-32E02 M														
	5701				--	--	--	--	--	--	--	--	.03	--				
4/23/74	5701	64 F 18 C	8.0															
	5701				194	1.30	.16	.48	.03	.02	1.74	.08	.14	.05	2	127	74	0.6
5/15/74	5701	66 F 19 C	7.9	185/25E-32G01 M														
	5701				265	2.05	.08	.44	.02	.02	1.98	.21	.20	.23	9	172	108	0.4
4/23/74	5701	65 F 18 C	7.6	185/25E-32K01 M														
	5701				233	1.65	.08	.57	.03	.01	1.90	.12	.20	.16	7	128	88	0.6
8/19/74	5701	66 F 19 C	7.7	195/24E-01G01 M														
	5701				346	2.50	.33	.65	.03	.02	2.47	.25	.56	.15	4	211	140	0.5
5/20/74	5701	62 F 17 C	7.6	195/24E-01R01 M														
	5701				434	3.19	.08	.61	.04	.01	1.98	.15	1.75	.15	4	241	166	0.5
1/15/73	5701	65 F 18 C	7.5	195/24E-02H01 M														
	5701				290	2.00	.25	.65	.03	.01	2.20	.19	.39	.19	6	182	114	0.6
4/23/74	5701	65 F 18 C	7.8															
	5701				293	2.10	.08	.65	.03	.02	2.23	.15	.37	.26	9	186	112	0.6
2/27/74	5701	66 F 19 C	7.9	195/24E-02H02 M														
	5701				283	2.05	.16	.65	.03	.02	2.23	.17	.34	.23	8	181	111	0.6
9/24/74	5701	67 F 19 C	8.0	195/24E-02K01 M														
	5701				150	1.35	.00	.83	.02	.02	1.15	.10	.20	.03	2	96	33	1.5

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					REM
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS	TM	SAW						
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
01/24/74	5701	195/25E-06E01	M	66 F		21	.0	16	1.1	.7	86	5.0	9.0	4.0	--	.1	117	54					
	5701			19 C	8.1	172	1.05	.00	.70	.03	.02	1.41	.10	.25	.06	--	17.0	116	0	1.0			
04/23/74	5701	195/25E-06M01	M	64 F		40	1.0	14	1.4	.5	96	5.0	35	7.0	--	.1	172	106					
	5701			18 C	7.9	291	2.00	.08	.61	.04	.02	1.57	.10	.99	.11	--	20.0	171	25	0.6			
01/24/74	5701	195/25E-07A01	M	65 F		35	2.0	16	1.1	.4	119	10	15	8.0	--	.1	166	98					
	5701			18 C	7.7	266	1.75	.16	.70	.03	.01	1.95	.21	.42	.13	--	20.0	166	0	0.7			
08/19/74	5701					--	--	--	--	--	--	--	--	--	.01	--							
01/31/74	5050	195/26E-22001	M	54.5F	7.3	650	84	30	45	--	0	371	--	54	16.0	--	--	335					
	5050			12.5C	7.8	852	4.19	2.47	1.96	--	.00	6.08	--	1.52	.26	--	--	29	1.1				
01/31/74	5050	195/26E-22P01	M	68.0F	7.3	520	46	17	38	--	0	212	--	47	12.0	--	--	185					
	5050			20.0C	7.9	559	2.30	1.40	1.65	--	.00	3.47	--	1.33	.19	--	--	12	1.2				
02/01/74	5050	195/26E-26J01	M	52.7F	7.6	900	41	50	161	--	0	466	--	133	16.0	--	--	308					
	5050			11.5C	8.1	1220	2.05	4.11	7.00	--	.00	7.64	--	3.75	.26	--	--	0	4.0				
01/31/74	5050	195/26E-26M01	M	48.2F	8.2	570	31	29	91	--	1.0	225	--	77	3.8	--	--	197					
	5050			9.0C	8.3	801	1.55	2.38	3.96	--	.03	3.69	--	2.17	.06	--	--	11	2.8				
02/01/74	5050	195/26E-28J01	M	52.7F	7.3	590	73	27	48	--	0	308	--	62	16.0	--	--	292					
	5050			11.5C	7.8	791	3.64	2.22	2.09	--	.00	5.05	--	1.75	.26	--	--	41	1.2				
01/31/74	5050	195/26E-32M01	M	68.9F	8.1	400	32	10	34	--	0	156	--	25	20.0	--	--	123					
	5050			20.5C	8.2	417	1.60	.82	1.48	--	.00	2.56	--	.71	.32	--	--	0	1.3				
01/31/74	5050	195/26E-34L01	M	68.0F	7.9	950	36	33	106	--	0	177	--	194	2.6	--	--	227					
	5050			20.0C	8.0	979	1.80	2.71	4.61	--	.00	2.90	--	5.47	.04	--	--	81	3.1				
01/31/74	5050	195/26E-34R01	M	51.8F	8.0	900	63	44	116	--	0	220	--	228	32.0	--	--	339					
	5050			11.0C	8.2	1220	3.14	3.62	5.05	--	.00	3.61	--	6.43	.52	--	--	158	2.7				
02/01/74	5050	195/26E-36F02	M	45.5F	8.2	550	50	30	80	--	0	283	--	54	44.0	--	--	249					
	5050			7.5C	8.3	822	2.50	2.47	3.48	--	.00	4.64	--	1.52	.71	--	--	17	2.2				
02/01/74	5050	205/26E-01P01	M	53.6F	7.9	520	48	26	42	--	0	182	--	72	38.0	--	--	226					
	5050			12.0C	8.1	688	2.40	2.14	1.83	--	.00	2.98	--	2.03	.61	--	--	78	1.2				
01/31/74	5050	205/26E-02F03	M	52.7F	7.3	1430	156	95	77	--	0	298	--	418	50.0	--	--	780					
	5050			11.5C	7.9	1970	7.78	7.81	3.35	--	.00	4.88	--	11.79	.81	--	--	536	1.2				
01/31/74	5050	205/26E-03001	M	63.5F	7.2	1900	71	53	365	--	0	628	--	394	.0	--	--	394					
	5050			17.5C	7.7	2300	3.54	4.36	15.88	--	.00	10.29	--	11.11	.00	--	--	0	8.0				
01/31/74	5050	205/26E-03002	M	62.6F	7.3	1680	93	71	203	--	0	274	--	465	18.0	--	--	526					
	5050			17.0C	7.8	2040	4.64	5.84	8.83	--	.00	4.49	--	13.11	.29	--	--	300	3.9				
01/31/74	5050	205/26E-05R01	M	50.9F	7.7	710	68	34	70	--	0	263	--	128	13.0	--	--	309					
	5050			10.5C	8.0	962	3.39	2.80	3.05	--	.00	4.31	--	3.61	.21	--	--	94	1.7				

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL	CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REM		
			PH	EC		CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCM	SAR			
																					PERCENT REACTANCE VALUE	
CENTRAL VALLEY SAN JOAQUIN VALLEY																						
01/31/74 0830	5050 5050	20S/26E-07C01	M	45.5F 7.5C	8.1 8.3	430 640	35 1.75 28	21 1.73 28	62 2.70 44	--	1.0 .03	185 3.03	--	64 1.80	14.0 .23	--	--	--	--	173 21	2.0	X
01/31/74 1200	5050 5050	20S/26E-09P01	M	50.0F 10.0C	7.8 7.9	800 1120	105 5.24 50	41 3.37 32	45 1.96 19	--	0 .00	209 3.43 39	--	159 4.48 51	54.0 .87 10	--	--	--	--	433 259	0.9	X
02/01/74 0930	5050 5050	20S/26E-11H01	M	57.2F 14.0C	7.9 8.1	560 714	53 2.64 40	25 2.06 32	42 1.83 28	--	0 .00	157 2.57 45	--	93 2.62 45	36.0 .58 10	--	--	--	--	236 107	1.2	X
01/31/74 1230	5050 5050	20S/26E-21P01	M	55.4F 13.0C	8.0 8.3	300 370	19 .95 28	7.9 .65 19	42 1.83 53	--	0 .00	191 3.13 82	--	17 .48 13	14.0 .23 6	--	--	--	--	80 0	2.0	
02/01/74 1200	5050 5050	20S/26E-23R01	M	56.3F 13.5C	8.0 8.1	440 545	37 1.85 36	15 1.23 24	48 2.09 40	--	0 .00	162 2.66 68	--	21 .59 15	40.0 .65 17	--	--	--	--	156 21	1.7	
04/10/74 0935	5050 5050	20S/27E-06P01	M	70.3F 21.3C	7.6 7.2	1000 1060	68 3.34 35	36 2.96 31	75 3.26 34	3.7 .09 1	0 .00	142 2.33 25	24 .50 5	208 5.87 62	46.0 .74 8	.10	--	--	626 531	316 201	1.8	
04/10/74 0950	5050 5050	20S/27E-07F01	M	71.2F 21.8C	7.4 7.4	1160 1210	78 3.89 35	42 3.45 31	82 3.57 32	4.2 .11 1	0 .00	171 2.80 26	31 .65 6	245 6.91 63	35.0 .56 5	.10	--	--	739 601	371 227	1.9	
04/10/74 1000	5050 5050	20S/27E-07F02	M	70.7F 21.5C	7.6 7.6	700 730	47 2.35 35	24 1.97 30	51 2.22 34	3.3 .08 1	0 .00	170 2.79 44	24 .50 8	104 2.93 46	11.0 .18 3	.10	--	--	422 348	214 77	1.5	
04/10/74 0910	5050 5050	20S/27E-07H01	M	69.8F 21.0C	7.4 7.6	780 835	55 2.74 33	30 2.47 30	67 2.91 35	3.2 .08 1	0 .00	223 3.65 45	50 1.04 13	85 2.40 30	61.0 .98 12	.10	--	--	509 461	261 78	1.8	
04/10/74 0900	5050 5050	20S/27E-07K02	M	70.7F 21.5C	7.6 7.6	1150 1240	83 4.14 36	44 3.62 32	82 3.57 31	4.1 .10 1	0 .00	188 3.08 27	44 .92 8	234 6.60 58	46.0 .74 7	.10	--	--	758 630	389 234	1.8	
04/10/74 0855	5050 5050	20S/27E-07M02	M	70.7F 21.5C	7.6 7.6	910 1010	77 3.84 40	38 3.13 33	58 2.52 26	4.0 .10 1	0 .00	197 3.23 34	43 .90 10	160 4.51 48	47.0 .76 8	.10	--	--	599 524	350 187	1.4	
04/10/74 0920	5050 5050	20S/27E-08E02	M	68.9F 20.5C	7.5 7.7	770 862	55 2.74 32	32 2.63 31	72 3.13 36	3.3 .08 1	0 .00	248 4.06 48	57 1.19 14	77 2.17 26	67.0 1.08 13	.10	--	--	523 485	269 66	1.9	
02/01/74 0900	5050 5050	20S/27E-19G01	M	50.9F 10.5C	7.7 8.0	780 1090	101 5.04 47	38 3.13 29	57 2.48 23	--	0 .00	298 4.88 54	--	100 2.82 31	80.0 1.29 14	--	--	--	409 165	1.2	X	
08/02/74 1305	5050 5050	21S/15E-04Q01	M		7.9 7.4		132 6.59 17	86 7.07 18	578 25.14 64	8.0 .20 1	0 .00	166 2.72 7	1440 29.98 76	231 6.51 17	4.0 .06	2.70	--	--	2620 2563	682 547	9.6	E
08/02/74 1245	5050 5050	21S/15E-10K01	M		7.7 7.7		119 5.94 19	99 8.14 26	386 16.79 54	4.5 .12	0 .00	274 4.49 15	1100 22.90 74	120 3.38 11	.9 .01	1.30	--	--	2050 1965	704 480	6.3	E
08/02/74 1130	5050 5050	21S/15E-11B01	M		7.7 7.5		229 11.43 26	160 13.16 30	456 19.84 45	5.5 .14	0 .00	188 3.08 7	1640 34.14 76	255 7.19 16	15.0 .24 1	2.90	--	--	3030 2856	1230 1076	5.7	E
08/02/74 1025	5050 5050	21S/15E-12O01	M		7.7 7.6		100 4.99 26	65 5.35 28	200 8.70 45	5.3 .14 1	0 .00	244 4.00 21	622 12.95 68	67 1.89 10	14.0 .23 1	.80	--	--	1180 1194	517 317	3.8	
08/02/74 0910	5050 5050	21S/16E-04N03	M		7.9 7.6		143 7.14 26	100 8.22 30	284 12.35 44	4.8 .12	0 .00	168 2.75 10	1040 21.65 78	120 3.38 12	7.3 .12	1.70	--	--	1910 1783	770 631	4.5	E

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER					RE
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8 SI02	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY SAN JOAQUIN VALLEY																		
215/16F-05P01 M																		
08/02/74	5050		7.8		132	91	300	4.5	0	182	1000	127	7.3	2.00	--	1860	715	
0930	5050		7.5	2470	6.59	7.48	13.05	.12	.00	2.98	20.82	3.58	.12	--	1753	555	4.9	
					24	27	48			11	76	13						
215/16E-06M01 M																		
08/02/74	5050		7.7		161	113	355	4.5	0	196	1190	183	15.0	2.40	--	2210	869	
0950	5050		7.6	2910	8.03	9.29	15.44	.12	.00	3.21	24.78	5.16	.24	--	2120	706	5.2	
					24	28	47			10	74	15	1					
215/16F-27K01 M																		
08/01/74	5050		8.1		32	18	192	2.0	0	149	405	21	1.1	.40	--	762	154	
1330	5050		7.8	1170	1.60	1.48	8.35	.05	.00	2.44	8.43	.59	.02	--	745	32	6.7	
					14	13	73			21	73	5						
215/16E-35A01 M																		
08/01/74	5050		8.0		58	36	192	2.6	0	120	528	40	9.7	.60	--	992	292	
1230	5050		7.9	1430	2.89	2.96	8.35	.07	.00	1.97	10.99	1.13	.16	--	926	194	4.9	
					20	21	59			14	77	8	1					
215/17F-03N01 M																		
07/31/74	5050		7.7		55	32	121	2.3	0	133	378	25	6.3	.40	--	740	270	
0950	5050		7.7	1060	2.74	2.63	5.26	.06	.00	2.18	7.87	.71	.10	--	685	160	3.2	
					26	25	49	1		20	72	7	1					
215/17E-06R01 M																		
08/01/74	5050		8.2		28	4.4	272	1.8	0	119	509	46	1.2	.80	--	894	88	
1030	5050		8.1	1440	1.40	.36	11.83	.05	.00	1.95	10.60	1.30	.02	--	922	0	12.6	
					10	3	87			14	76	9						
215/17E-14M01 M																		
07/31/74	5050		7.9		62	30	121	2.3	0	130	384	32	10.0	.40	--	755	280	
1250	5050		7.8	1080	3.09	2.47	5.26	.06	.00	2.17	7.99	.90	.16	--	706	172	3.2	
					28	23	48	1		19	71	8	1					
215/17F-25M01 M																		
07/31/74	5050		8.1		72	22	192	2.5	0	73	424	110	27.0	.40	--	910	270	
0950	5050		7.9	1380	3.59	1.81	8.35	.06	.00	1.20	8.83	3.10	.44	--	886	210	5.1	
					26	13	60			9	65	23	3					
215/18E-04N02 M																		
07/29/74	5050		8.3		85	30	161	2.2	0	95	513	38	13.0	.40	--	908	334	
1045	5050		7.8	1310	4.24	2.47	7.00	.06	.00	1.56	10.68	1.07	.21	--	889	258	3.8	
					31	18	51			12	79	8	2					
215/18F-12D02 M																		
07/30/74	5050		8.3		38	3.6	186	.9	0	60	364	53	1.7	.50	--	680	110	
0905	5050		8.3	1060	1.90	.30	8.09	.02	.00	.98	7.58	1.49	.03	--	677	61	7.7	
					18	3	78			10	75	15						
215/18F-22G01 M																		
07/30/74	5050		8.2		45	6.8	167	1.0	0	71	361	38	7.8	.30	--	662	140	
1230	5050		8.0	1020	2.25	.56	7.26	.03	.00	1.16	7.52	1.07	.13	--	662	83	6.1	
					22	6	72			12	76	11	1					
215/18F-30P01 M																		
07/31/74	5050		7.9		13	8.6	23	1.5	0	71	19	27	1.5	.10	--	151	68	
0940	5050		7.5	245	.65	.71	1.00	.04	.00	1.16	.40	.76	.02	--	129	10	1.2	
					27	30	42	2		50	17	32	1					
215/18E-35N01 M																		
07/30/74	5050		8.3		35	2.3	200	.9	0	50	380	55	12.0	.40	--	696	97	
1020	5050		8.0	1100	1.75	.19	8.70	.02	.00	.82	7.91	1.55	.19	--	710	56	8.8	
					16	2	82			8	76	15	2					
215/19E-11C02 M																		
07/30/74	5050		8.0		16	3.2	223	1.6	0	227	302	20	9.8	1.00	--	703	53	
1330	5050		7.8	1090	.80	.26	9.70	.04	.00	3.72	6.29	.56	.16	--	688	0	13.3	
					7	2	90			35	59	5	1					
215/19E-19D01 M																		
07/29/74	5050		8.0		26	3.9	167	1.2	0	135	280	24	1.1	.60	--	576	81	
1310	5050		8.0	904	1.30	.32	7.26	.03	.00	2.21	5.83	.68	.02	--	570	0	8.1	
					15	4	81			25	67	8						
215/20E-27A01 M																		
07/25/74	5050	78.8F	7.3	1700	57	104	532	14	0	1440	2.3	380	2.4	1.10	--	1820	572	
1340	5050	26.0C	7.6	3220	2.84	8.55	23.14	.36	.00	23.60	.05	10.72	.04	--	1801	0	9.7	
					8	25	66	1		69		31						
215/21E-01C01 M																		
07/26/74	5050	82.4F	7.9	220	6.2	.6	90	.2	0	133	4.3	62	6.9	.20	--	253	18	
1130	5050	28.0C	7.3	441	.31	.05	3.92	.01	.00	2.18	.09	1.75	.11	--	236	0	9.2	
					7	1	91			53	?	42	3					
215/21E-26D01 M																		
07/26/74	5050	84.2F	7.3	1800	51	21	280	5.1	0	372	6.7	351	17.0	.50	--	964	214	
1000	5050	29.0C	7.5	1800	2.54	1.73	12.18	.13	.00	6.10	.14	9.90	.27	--	915	0	8.3	
					15	10	73	1		37	1	60	2					

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR							
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
30/74 300	5050 5050	215/22F-08F01	M	75.2F	7.3	1400	9.7	5.6	344	1.3	0	786	7.6	105	.6	1.30	--	895	47						
				24.0C	7.9	1500	.48 3	.46 3	14.96 94	.03	.00	12.88 81	.07	2.96 19	.01	--	858	0	21.8						
30/74 300	5050 5050	215/22F-19A01	M	89.6F	7.1	1600	22	9.7	325	4.1	3.0	748	2.1	125	11.0	.90	--	900	95						
				32.0C	8.4	1510	1.10 7	.80 5	14.14 88	.10 1	.10 1	12.26 76	.04	3.53 22	.18 1	--	871	0	14.5						
7/26/74 1200	5050 5050	215/22F-22M01	M	82.4F	7.5	1300	41	7.3	242	1.4	0	470	.3	202	.2	.40	--	743	132						
				28.0C	7.6	1360	2.05 16	.60 5	10.53 80	.04	.00	7.70 57	.01	5.70 43	.00	--	726	0	9.2						
7/01/74 0900	5050 5050	215/22E-28D01	M	78.8F	7.1	460	67	7.5	30	.3	0	240	15	18	29.0	.00	--	308	198						
				26.0C	7.7	509	3.34 63	.62 12	1.31 25	.01	.00	3.93 75	.31 6	.51 10	.47 9	--	285	2	0.9						
7/31/74 1000	5050 5050	215/22E-34A01	M	71.6F	7.1	420	53	7.5	33	.2	0	224	16	20	8.6	.00	--	272	163						
				22.0C	8.1	463	2.64 56	.62 13	1.44 31	.01	.00	3.67 78	.33 7	.56 12	.14 3	--	248	0	1.1						
7/29/74 1200	5050 5050	215/22E-35C01	M	87.8F	7.3	630	19	8.4	89	3.6	0	289	2.5	22	6.1	.30	--	328	82						
				31.0C	7.4	559	.95 17	.69 12	3.87 69	.09 2	.00	4.74 86	.05 1	.62 11	.10 2	--	293	0	4.3						
7/26/74 1200	5050 5050	215/22E-36A02	M	80.6F	7.4	295	12	3.4	47	2.5	0	138	8.9	15	1.7	.20	--	213	44					E	
				27.0C	7.6	298	.60 20	.28 9	2.04 68	.06 2	.00	2.26 78	.19 7	.42 14	.03 1	--	159	0	3.1						
7/29/74 1330	5050 5050	215/23F-03C01	M	93.2F	7.5	320	14	6.6	30	.0	0	116	20	5.9	6.6	.00	--	141	62					X	
				34.0C	8.2	253	.70 27	.54 21	1.31 51	.00	.00	1.90 73	.42 16	.17 7	.11 4	--	140	0	1.7						
7/30/74 1200	5050 5050	215/23E-09F01	M	75.2F	7.5	310	19	3.3	49	.0	0	154	12	9.4	11.0	.00	--	185	61						
				24.0C	8.2	306	.95 28	.27 8	2.13 64	.00	.00	2.52 78	.25 8	.27 8	.18 6	--	179	0	2.7						
7/30/74 1000	5050 5050	215/23E-14001	M	77.0F	7.5	300	7.4	1.3	64	.0	0	162	15	11	1.5	.20	--	186	24						
				25.0C	8.3	310	.37 11	.11 3	2.78 85	.00	.00	2.66 81	.31 9	.31 9	.02 1	--	180	0	5.7						
7/30/74 0930	5050 5050	215/23E-17M01	M	80.6F	7.3	330	20	2.4	65	.0	0	203	17	8.5	7.1	.00	--	229	60						
				27.0C	8.2	389	1.00 25	.20 5	2.83 70	.00	.00	3.33 83	.35 9	.24 6	.11 3	--	220	0	3.7						
7/26/74 1300	5050 5050	215/23F-18N01	M	77.0F	7.1	1200	68	8.4	213	.4	0	435	211	33	69.0	.20	--	804	204						
				25.0C	7.9	1270	3.39 25	.69 5	9.27 69	.01	.00	7.13 53	4.39 32	.93 7	1.11 8	--	817	0	6.5						
7/30/74 1030	5050 5050	215/23E-25A01	M	75.2F	7.3	380	23	5.2	69	.1	0	217	22	19	3.2	.10	--	244	79						
				24.0C	8.3	430	1.15 25	.43 9	3.00 66	.00	.00	3.56 77	.46 10	.54 12	.05 1	--	248	0	3.4						
7/31/74 1100	5050 5050	215/24E-02F01	M	7.5	600	20	3.9	7.9	.1	0	180	35	40	4.2	.10	--	268	66							
				8.3	505	1.00 21	.32 7	3.44 72	.00	.00	2.95 60	.73 15	1.13 23	.07 1	--	271	0	4.2							
7/31/74 0945	5050 5050	215/24F-17A01	M	71.6F	7.3	450	28	6.3	75	.1	0	235	31	16	14.0	.10	--	291	96						
				22.0C	8.3	508	1.40 27	.52 10	3.26 63	.00	.00	3.85 74	.65 13	.45 9	.23 4	--	286	0	3.3						
7/31/74	5050 5050	215/24E-18A01	M	78.8F	7.3	440	20	4.4	71	.0	0	177	24	35	7.3	.10	--	254	68						
				26.0C	8.0	460	1.00 22	.36 8	3.09 69	.00	.00	2.90 64	.50 11	.99 22	.12 3	--	249	0	3.7						
8/01/74 0930	5050 5050	215/24E-36N01	M	73.4F	7.1	650	88	8.0	45	.7	0	254	44	64	19.0	.10	--	421	253						
				23.0C	7.6	724	4.39 62	.66 9	1.96 28	.02	.00	4.16 58	.92 13	1.80 25	.31 4	--	394	45	1.2						
8/01/74 1100	5050 5050	215/25F-14R01	M	71.6F	7.2	370	51	8.0	27	1.1	0	216	15	8.2	19.0	.10	--	256	160						
				22.0C	7.7	427	2.54 58	.66 15	1.17 27	.03 1	.00	3.54 81	.31 7	.23 5	.31 7	--	236	0	0.9						
8/01/74 1115	5050 5050	215/25F-15L01	M	71.6F	7.2	320	32	2.9	41	.9	0	165	20	12	19.0	.10	--	237	92						
				22.0C	7.9	381	1.60 44	.24 7	1.78 49	.02 1	.00	2.70 72	.42 11	.34 9	.31 8	--	209	0	1.9						

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER					RE
					CA	MG	NA	K	CO1	HCO3	SO4	CL	NO3	R	F	TD5 SUM	TH NCH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
215/25F-17A01 M																				
08/01/74	5050	73.4F	7.8	200	7.0	.4	40	.5	0	84	11	11	6.5	.10	--	132	19			
1130	5050	23.0C	8.3	208	.35	.03	1.74	.01	.00	1.38	.23	.31	.10	--	--	118	0	4.0		
215/25F-11P01 M																				
08/01/74	5050	73.4F	7.3	350	33	3.8	41	.2	0	144	20	28	11.0	.10	--	230	98			
0930	5050	23.0C	8.0	389	1.65	.31	1.78	.01	.00	2.36	.42	.79	.18	--	--	208	0	1.8		
215/25F-13K01 M																				
08/01/74	5050	75.2F	7.9	200	9.7	.0	33	.7	0	101	6.2	8.6	1.6	.00	--	131	24			
1000	5050	24.0C	7.9	202	.48	.00	1.44	.02	.00	1.66	.13	.24	.03	--	--	109	0	2.9		
215/25F-36N01 M																				
08/01/74	5050	73.4F	7.3	400	58	7.7	23	1.7	0	200	16	25	11.0	.10	--	254	176			
1015	5050	23.0C	7.6	453	2.89	.63	1.00	.04	.00	3.28	.33	.71	.18	--	--	241	12	0.8		
215/26F-12K01 M																				
08/02/74	5050	71.6F	7.1	490	67	14	31	1.6	0	259	34	21	22.0	.10	--	324	226			
1030	5050	22.0C	8.0	571	3.34	1.15	1.35	.04	.00	4.25	.71	.59	.35	--	--	318	12	0.9		
215/26F-22N01 M																				
08/02/74	5050	71.6F	7.3	240	56	7.7	19	1.5	0	209	15	9.3	16.0	.00	--	204	171			
0930	5050	22.0C	8.1	411	2.79	.63	.83	.04	.00	3.43	.31	.26	.26	--	--	227	0	0.6		
215/26F-26A01 M																				
08/02/74	5050	68.0F	7.1	260	41	6.6	14	1.3	0	157	13	5.6	12.0	.00	--	171	129			
0945	5050	20.0C	7.9	301	2.05	.54	.61	.03	.00	2.57	.27	.16	.19	--	--	171	1	0.5		
215/26F-31K02 M																				
08/02/74	5050	71.6F	7.1	550	70	16	29	2.1	0	273	28	22	30.0	.10	--	362	242			
0930	5050	22.0C	7.7	594	3.49	1.32	1.26	.05	.00	4.47	.58	.62	.48	--	--	331	17	0.8		
215/26F-32A01 M																				
08/02/74	5050	71.6F	7.1	480	77	12	24	1.8	0	277	18	17	25.0	.00	--	309	243			
0900	5050	22.0C	7.9	563	3.84	.99	1.04	.05	.00	4.54	.37	.48	.40	--	--	311	15	0.7		
215/26F-33F01 M																				
08/02/74	5050	73.4F	7.1	400	62	9.1	31	1.8	0	252	19	12	21.0	.00	--	266	192			
1200	5050	23.0C	7.9	509	3.09	.75	1.35	.05	.00	4.13	.40	.34	.34	--	--	280	0	1.0		
215/27F-02E01 M																				
08/05/74	5050	75.2F	7.3	700	40	31	59	2.3	0	344	41	15	24.0	.00	--	407	226			
1200	5050	24.0C	7.8	682	2.00	2.55	2.57	.06	.00	5.64	.85	.42	.39	--	--	381	0	1.7		
215/27F-07001 M																				
08/05/74	5050	73.4F	6.9	700	76	29	48	1.9	0	323	43	47	40.0	.10	--	443	310			
0915	5050	23.0C	7.9	801	3.79	2.38	2.09	.05	.00	5.29	.90	1.33	.65	--	--	444	44	1.2		
215/27F-21R01 M																				
08/05/74	5050	73.4F	7.0	390	52	10	26	2.0	0	187	22	24	15.0	.20	--	260	172			
0930	5050	23.0C	7.6	457	2.59	.82	1.13	.05	.00	3.06	.46	.68	.24	--	--	243	18	0.9		
215/27F-32J01 M																				
08/05/74	5050	66.2F	7.0	290	31	5.2	15	1.8	0	132	8.2	7.2	3.4	.00	--	161	99			
0950	5050	19.0C	7.6	255	1.55	.43	.65	.05	.00	2.16	.17	.20	.05	--	--	137	0	0.7		
215/27F-34P01 M																				
08/05/74	5050	71.6F	7.0	700	85	12	58	5.0	0	311	38	43	48.0	.20	--	454	264			
1000	5050	22.0C	7.4	774	4.24	.99	2.52	.13	.00	5.10	.79	1.21	.77	--	--	442	7	1.6		
215/28F-32K01 M																				
08/05/74	5050	7.4			82	22	74	1.4	0	374	40	44	57.0	.20	--	529	297			
1330	5050	7.4		882	4.09	1.81	3.22	.04	.00	6.13	.83	1.24	.92	--	--	504	0	1.9		
215/28F-33N01 M																				
08/05/74	5050	7.3			42	6.6	21	1.3	0	168	14	10	11.0	.10	--	216	132			
1305	5050	7.4		358	2.10	.54	.91	.03	.00	2.75	.29	.28	.18	--	--	189	0	0.8		
215/28F-35L02 M																				
08/05/74	5050	7.3			38	38	27	2.0	0	295	20	17	23.0	.00	--	327	253			
0930	5050	7.3		584	1.90	3.13	1.17	.05	.00	4.84	.42	.48	.37	--	--	310	10	0.7		

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER										MILLIEQUIVALENTS PER LITER										REM
				PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE																				
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3		8	F	T05	TH	SAR																
CENTRAL VALLEY SAN JOAQUIN VALLEY																																		
02/74	255/25F-01F01 M 5205 5806			7.6	680	51 2.54 35	1.6 .13 2	101 4.39 61	5.2 .13 2	0 .00	102 1.67 23	87 1.81 25	85 2.40 33	81.0 1.31 18	--	.1 --	463* 462	134 50	3.8															
02/74	255/25F-02M01 M 5205 5806			7.7	380	29 1.45 38	2.4 .20 5	48 2.09 54	4.8 .12 3	0 .00	62 1.02 26	87 1.81 47	19 .55 14	29.0 .47 12	--	.1 --	251* 250	83 32	2.3															
02/74	255/25E-02R02 M 5205 5806			7.7	510	44 2.20 43	2.3 .19 4	58 2.52 50	6.0 .15 3	0 .00	84 1.38 27	56 1.17 23	46 1.32 26	74.4 1.20 24	--	.1 --	329* 329	120 51	2.3															
02/74	255/25F-10A01 M 5205 5806			7.7	440	38 1.90 42	1.7 .14 3	55 2.39 52	5.0 .13 3	0 .00	97 1.52 33	60 1.25 27	41 1.17 26	38.4 .62 14	--	.2 --	285* 285	102 26	2.4															
02/74	255/25E-11E01 M 5205 5806			8.4	410	17 .85 18	.3 .02	84 3.65 79	3.0 .08 2	21 .73 16	53 .87 19	60 1.25 27	38 1.08 23	41.5 .67 15	--	.1 --	292* 292	44 0	5.5					E										
02/74	255/25F-11H01 M 5205 5806			7.7	450	41 2.05 44	1.5 .12 3	55 2.39 51	5.2 .13 3	0 .00	98 1.61 34	52 1.08 23	48 1.36 29	39.7 .64 14	--	.1 --	292* 291	109 28	2.3															
02/74	255/25E-11J01 M 5205 5806			7.8	330	30 1.50 41	1.0 .08 2	45 1.96 54	3.8 .10 3	0 .00	130 2.13 59	35 .73 20	18 .51 14	15.5 .25 7	--	.1 --	213* 212	79 0	2.2															
02/74	255/25F-11P01 M 5205 5806			7.7	410	30 1.50 36	2.2 .18 4	54 2.35 56	5.0 .13 3	0 .00	101 1.66 40	40 .83 20	31 .90 22	45.9 .74 18	--	.1 --	260* 259	84 1	2.6															
02/74	255/25E-12E01 M 5205 5806			7.4	440	42 2.10 43	6.5 .53 11	48 2.09 43	6.6 .17 3	0 .00	151 2.47 51	25 .52 11	27 .77 16	68.8 1.11 23	--	.1 --	300* 298	132 8	1.8															
02/74	265/18E-18F03 M 5121 5806				1980	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
02/74	295/25F-10P02 M 5121 5806				650	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
02/74	295/26F-25K01 M 5121 5806				240	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
2/14/74	295/27F-23H01 M 5701 5701	66 F 19 C	7.5	249		27 1.35 54	2.0 .16 6	21 .91 37	2.3 .06 2	.2 .01	109 1.79 69	13 .27 10	17 .48 18	3.0 .05 2	--	.1 26.0	166 165	78 0	1.1															
2/27/74	5701 5701					--	--	--	--	--	--	--	--	--	.10	--																		
3/05/74	295/27E-25R02 M 5701 5701	68 F 20 C	7.4	260		27 1.35 53	4.0 .33 13	19 .83 32	2.3 .06 2	.2 .01	107 1.75 69	16 .33 13	13 .37 15	4.0 .06 2	--	.1 25.0	164 163	83 0	0.9															
3/13/74	295/27E-25D02 M 5701 5701			7.8	238	25 1.25 51	4.0 .33 13	19 .83 34	2.1 .05 2	.4 .01	97 1.59 67	14 .29 12	14 .39 17	5.0 .08 3	--	.1 26.0	158 157	78 0	0.9															
5/08/74	295/27F-25G01 M 5701 5701	66 F 19 C	7.6	218		23 1.15 51	3.0 .25 11	18 .78 35	2.4 .06 3	.3 .01	95 1.56 68	16 .33 14	13 .37 16	1.0 .02 1	--	.2 24.0	148 147	70 0	0.9															

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE				MILLIGRAMS PER LITER					REMARKS	
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH		SAR
CENTRAL VALLEY SAN JOAQUIN VALLEY																			
09/05/74	5701	29S/27F-25G02	M	66 F		27	4.0	19	2.2	.3	107	17	13	3.0	--	.1	161	83	
	5701			19 C	7.6	252	1.35	.33	.83	.06	.01	1.75	.35	.37	.05	23.0	161	0	0.9
						53	13	32	2		69	14	15	2					
01/16/74	5701	29S/27F-25R01	M	66 F		29	3.0	19	2.2	.2	114	15	11	4.0	--	.2	165	84	
	5701			19 C	7.4	244	1.45	.25	.83	.06	.01	1.87	.31	.31	.06	25.0	164	0	0.9
						56	10	32	2		73	12	12	2					
03/20/74	5701	29S/27E-26J01	M	65 F		27	1.0	19	1.9	.7	103	15	10	3.0	--	.2	153	72	
	5701			14 C	8.0	221	1.35	.08	.83	.05	.02	1.69	.31	.28	.05	25.0	153	0	1.0
						58	3	36	2		72	13	12	2					
08/12/74	5701	29S/27E-35A02	M	67 F		21	3.0	16	1.7	.4	90	13	9.0	1.0	--	.2	136	64	
	5701			19 C	7.8	199	1.05	.25	.70	.04	.01	1.48	.27	.25	.02	26.0	135	0	0.9
						51	12	34	2		73	13	12	1					
01/16/74	5701	29S/27E-35E01	M	66 F		32	1.0	18	2.3	.2	117	15	14	1.0	--	.3	166	86	
	5701			19 C	7.5	246	1.60	.08	.78	.06	.01	1.92	.31	.39	.02	25.0	166	0	0.9
						63	3	31	2		72	12	15	1					
02/27/74	5701					--	--	--	--	--	--	--	--	--	.12	--			
	5701														--	--			
08/12/74	5701	29S/27E-35G01	M	68 F		22	2.0	19	2.0	.2	92	14	12	2.0	--	.2	144	66	
	5701			20 C	7.4	221	1.10	.16	.83	.05	.01	1.51	.29	.34	.03	24.0	142	0	1.0
						51	7	39	2		69	13	16	1					
08/12/74	5701	29S/27E-36H01	M	68 F		50	10	28	2.9	.1	139	31	55	7.0	--	.1	280	168	
	5701			20 C	7.2	475	2.50	.82	1.22	.07	.00	2.28	.65	1.55	.11	27.0	279	52	0.9
						54	16	26	2		50	14	34	2					
02/14/74	5701	29S/27E-36K01	M	65 F		21	2.0	18	1.9	.2	92	13	12	.0	--	.5	139	62	
	5701			18 C	7.5	212	1.05	.16	.78	.05	.01	1.51	.27	.34	.00	26.0	139	0	1.0
						51	8	38	2		71	13	16						
08/12/74	5701			67 F		26	2.0	20	2.1	.2	97	18	15	.0	--	.2	156	74	
	5701			19 C	7.5	245	1.30	.16	.87	.05	.01	1.59	.37	.42	.00	25.0	156	0	1.0
						55	7	37	2		67	15	18						
09/05/74	5701	29S/28E-16E01	M	66 F		30	3.0	19	1.7	.3	117	16	13	.0	--	.2	167	87	
	5701			19 C	7.6	257	1.50	.25	.83	.04	.01	1.92	.33	.37	.00	27.0	168	0	0.9
						57	10	32	2		73	13	14						
01/16/74	5701	29S/28E-16M01	M	68 F		41	2.0	20	2.0	.5	111	31	22	4.0	--	.2	201	110	
	5701			20 C	7.9	311	2.05	.16	.67	.05	.02	1.82	.65	.62	.06	25.0	202	19	0.8
						65	5	28	2		57	21	20	2					
06/12/74	5701	29S/28E-16001	M	68 F		33	4.0	20	2.3	.3	122	23	14	2.0	--	.1	181	98	
	5701			20 C	7.5	286	1.65	.33	.87	.06	.01	2.00	.48	.39	.03	23.0	182	0	0.9
						57	11	30	2		69	16	13	1					
09/05/74	5701	29S/28E-16K01	M	78 F		25	1.0	27	1.6	.4	90	31	16	.0	--	.1	169	69	
	5701			26 C	7.8	268	1.25	.08	1.17	.04	.01	1.48	.65	.45	.00	22.0	168	0	1.4
						49	3	46	2		57	25	17						
08/12/74	5701	29S/28F-17R01	M	72 F		46	6.0	22	2.1	.3	104	47	42	.0	--	.1	244	142	
	5701			22 C	7.6	401	2.30	.49	.96	.05	.01	1.70	.98	1.18	.00	26.0	243	54	0.8
						61	13	25	1		44	25	30						
01/16/74	5701	29S/28F-19J03	M	68 F		21	2.0	17	1.6	.3	87	12	10	2.0	--	.2	132	60	
	5701			20 C	7.7	195	1.05	.16	.74	.04	.01	1.43	.25	.28	.03	24.0	133	0	1.0
						53	8	37	2		72	13	14	2					
02/14/74	5701	29S/28E-19K01	M	66 F		26	2.0	19	2.0	.2	109	15	11	.0	--	.2	157	76	
	5701			19 C	7.4	236	1.30	.16	.83	.05	.01	1.79	.31	.31	.00	27.0	156	0	1.0
						56	7	35	2		74	13	13						
05/08/74	5701	29S/28E-19L01	M	68 F		30	3.0	20	2.2	.2	114	16	14	1.0	--	.1	167	86	
	5701			20 C	7.5	264	1.50	.25	.87	.06	.01	1.87	.33	.39	.02	25.0	167	0	0.9
						56	9	32	2		71	13	15	1					
04/16/74	5701	29S/28E-19N02	M	67 F		34	4.0	21	2.8	.4	121	28	13	4.0	--	.2	193	100	
	5701			19 C	7.7	286	1.70	.33	.91	.07	.01	1.98	.58	.37	.06	26.0	193	2	0.9
						56	11	30	2		66	19	12	2					
05/08/74	5701					--	--	--	--	--	--	--	--	--	.22	--			
	5701														--	--			

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE				MILLIGRAMS PER LITER				REM
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B 5102	F	TDS SUM	TH NCH	SAR					
CENTRAL VALLEY SAN JOAQUIN VALLEY																						
4/17/74	5701	67	F	A.2	224	1.45	.08	.78	.05	1.1	105	14	11	2.0	--	.2	155	76	0	0.9		
1/16/74	5701	72	F	7.6	509	3.39	.33	1.04	.06	.01	1.54	69	64	8.0	--	.1	311	186	109	0.8		
4/17/74	5701	74	F	7.5	572	3.74	.60	1.17	.06	.01	1.39	79	82	1.0	--	.1	339	214	142	0.8		
3/20/74	5701	77	F	8.2	184	.95	1.0	.83	.03	.03	1.29	12	9.0	6.0	--	.1	130	52	0	1.2	E	
1/16/74	5701	72	F	7.7	433	2.69	.16	1.00	.05	.01	1.43	50	52	3.0	--	.2	255	142	71	0.8		
09/05/74	5701	79	F	8.0	288	1.55	.16	1.04	.03	.02	1.43	37	23	.0	--	.1	182	87	13	1.1		
09/05/74	5701	78	F	7.9	330	9.63	.25	.87	.04	.01	1.34	30	38	.0	--	.1	193	108	427	0.4	TC S	
02/14/74	5701	76	F	7.8	212	1.05	.16	.83	.03	.01	1.39	16	13	.0	--	.1	137	60	0	1.1		
05/08/74	5701	80	F	8.3	250	1.10	.00	1.09	.02	.03	.93	25	29	1.0	--	.1	152	56	7	1.5		
06/12/74	5701																					
01/16/74	5701	73	F	7.7	257	1.50	.08	.83	.03	.01	1.34	26	21	4.0	--	.2	166	80	12	0.9		
01/16/74	5701	69	F	7.8	250	1.55	.00	.87	.05	.01	1.67	19	18	.0	--	.1	167	80	0	1.0		
09/05/74	5701	72	F	8.1	190	.85	.00	1.04	.02	.02	1.26	17	12	.0	--	.1	127	42	0	1.6		
08/12/74	5701	74	F	8.5	231	.70	.00	1.48	.03	.05	1.23	29	13	.0	--	.1	144	36	0	2.5		
06/12/74	5701	67	F	A.3	314	.70	.00	2.26	.03	.05	1.84	32	18	1.0	--	.2	188	36	0	3.8		
05/08/74	5701	68	F	7.8	210	.80	7.0	.58	.74	.04	.01	1.59	14	10	.0	--	.2	135	68	0	0.9	
06/12/74	5701	67	F	7.4	302	1.90	3.0	1.00	.05	.01	2.00	27	16	3.0	--	.1	197	106	7	1.0		
04/17/74	5701	68	F	7.8	328	1.85	6.0	.49	.96	.07	.02	2.18	33	16	7.0	--	.1	218	116	7	0.9	

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE				MILLIGRAMS PER LITER					RI
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TO5 SUM	TH NCM	SAR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
04/17/74	5701	68 20	F C	7.6	215	23	3.0	17	2.1	.2	87	18	12	6.0	--	.2	152	70	0.9				
						1.15	.25	.74	.05	.01	1.43	.37	.34	.10	28.0	152	0						
						53	11	34	2	64	16	15	4										
08/12/74	5701	68 20	F C	7.5	295	33	5.0	21	2.2	.3	124	24	15	2.0	--	.1	189	102	0.9				
						1.65	.41	.91	.06	.01	2.03	.50	.42	.03	26.0	189	1						
						54	14	30	2	68	17	14	1										
08/12/74	5701	68 20	F C	7.4	291	33	4.0	20	2.3	.2	119	26	13	7.0	--	.1	194	100	0.9				
						1.65	.33	.87	.06	.01	1.95	.54	.37	.11	30.0	194	1						
						57	11	30	2	65	18	12	4										
06/12/74	5701	68 20	F C	7.5	289	33	3.0	22	2.0	.3	124	21	15	2.0	--	.1	185	96	1.0				
						1.65	.25	.96	.05	.01	2.03	.44	.42	.03	25.0	184	0						
						57	9	33	2	69	15	14	1										
04/17/74	5701	67 19	F C	8.1	282	35	1.0	21	2.2	1.0	120	22	14	3.0	--	.1	184	94	1.0				
						1.75	.08	.91	.06	.03	1.97	.46	.39	.05	24.0	182	0						
						63	3	33	2	1	68	16	13	2									
05/08/74	5701					--	--	--	--	--	--	--	--	--	.17	--	--						
01/16/74	5701	68 20	F C	8.0	224	19	1.0	25	1.6	.7	96	15	12	2.0	--	.2	145	54	1.5				
						.95	.08	1.09	.04	.02	1.57	.31	.34	.03	21.0	145	0						
						44	4	50	2	1	69	14	15	1									
02/14/74	5701	67 19	F C	7.2	341	40	4.0	22	2.5	.1	131	27	23	4.0	--	.2	215	118	0.9				
						2.00	.33	.96	.06	.00	2.15	.56	.65	.06	27.0	214	9						
						60	10	29	2	63	16	19	2										
01/16/74	5701	67 19	F C	7.7	252	25	1.0	26	2.1	.3	104	18	15	2.0	--	.2	163	68	1.4				
						1.25	.08	1.13	.05	.01	1.70	.37	.42	.03	21.0	162	0						
						50	3	45	2	67	15	17	1										
06/12/74	5701	68 20	F C	7.2	310	33	6.0	24	2.2	.1	127	28	16	6.0	--	.1	202	106	1.0				
						1.65	.49	1.04	.06	.00	2.08	.58	.45	.10	25.0	203	3						
						51	15	32	2	65	18	14	3										
04/17/74	5701	68 20	F C	7.4	418	52	5.0	28	3.1	.3	156	37	32	8.0	--	.2	270	152	1.0				
						2.59	.41	1.22	.08	.01	2.56	.77	.90	.13	27.0	269	22						
						60	10	28	2	59	18	21	3										
09/05/74	5701	72 22	F C	8.0	646	70	6.0	56	2.9	.7	96	169	48	6.0	--	.1	421	200	1.7				
						3.49	.49	2.44	.07	.02	1.57	3.52	1.35	.10	15.0	421	120						
						54	8	38	1	24	54	21	2										
08/14/74	5701	72 22	F C	8.0	774	98	9.0	42	4.0	.5	79	184	73	15.0	--	.1	483	280	1.1				
						4.89	.74	1.83	.10	.02	1.29	3.83	2.06	.24	19.0	483	216						
						65	10	24	1	17	51	28	3										
03/20/74	5701	70 21	F C	8.0	318	34	3.0	24	2.5	.6	94	37	27	3.0	--	.2	200	96	1.1				
						1.70	.25	1.04	.06	.02	1.54	.77	.76	.05	23.0	200	20						
						56	8	34	2	1	49	25	24	2									
03/20/74	5701	72 22	F C	7.8	816	97	9.0	57	4.6	.5	114	150	96	26.0	--	.1	518	280	1.5				
						4.84	.74	2.48	.12	.02	1.87	3.12	2.71	.42	22.0	518	185						
						59	9	30	1	23	38	33	5										
02/14/74	5701	72 22	F C	7.4	971	124	5.0	63	4.9	.2	119	217	97	25.0	--	.1	620	337	1.5				
						6.19	.41	2.74	.13	.01	1.95	4.52	2.74	.40	24.0	619	232						
						65	4	29	1	20	47	28	4										
05/08/74	5701	78 26	F C	7.6	2448	282	1.0	206	9.0	.2	61	666	280	55.0	--	.1	1546	708	3.4				
						14.07	.08	8.96	.23	.01	1.00	13.87	7.90	.89	17.0	1546	658						
						60	38	1	4	59	33	4											
04/17/74	5701	78 26	F C	8.0	758	58	2.0	91	4.7	.8	111	136	85	13.0	--	.1	462	154	3.2				
						2.89	.16	3.96	.12	.03	1.82	2.83	2.40	.21	18.0	463	60						
						41	2	56	2	25	39	33	3										

TABLE E-1 (Continued)  
MINERAL ANALYSES OF GROUND WATER

DATE	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TDS SUM	TH NCM	SAR			
CENTRAL-VALLEY SAN JOAQUIN VALLEY																						
08/74	5701	305/27E-01802	M	67	F		16	4.0	20	2.0	.3	94	12	9.0	1.0	--	.1	132	56			
	5701		19	C	7.7	204	.80	.33	.87	.05	.01	1.54	.25	.25	.02		21.0	132	0	1.2		
							39	16	42	2		74	12	12	1							
12/74	5701	305/27E-01602	M	68	F		68	10	44	3.2	.3	207	62	36	39.0	--	.1	393	212			
	5701		20	C	7.3	613	3.39	.82	1.91	.08	.01	3.39	1.29	1.02	.63		28.0	392	41	1.3		
							55	13	31	1		53	20	16	10							
1/17/74	5701	305/27E-01J01	M	68	F		30	.0	23	2.4	.4	116	18	11	3.0	--	.2	165	76			
	5701		20	C	7.7	256	1.50	.00	1.00	.06	.01	1.90	.37	.31	.05		20.0	165	0	1.2		
							59		39	2		72	14	12	2							
1/17/74	5701	305/27E-01K01	M	67	F		39	3.0	32	3.0	.2	146	30	20	10.0	--	.1	232	112			
	5701		19	C	7.4	361	1.95	.25	1.39	.08	.01	2.39	.62	.56	.16		23.0	232	0	1.3		
							53	7	38	2		64	17	15	4							
1/17/74	5701						--	--	--	--	--	--	--	--	--	.25	--					
	5701															--	--					
1/17/74	5701	305/27E-01M01	M	68	F		26	5.0	18	1.9	.5	111	15	11	5.0	--	.2	161	84			
	5701		20	C	7.8	242	1.30	.41	.78	.05	.02	1.82	.31	.31	.08		24.0	161	0	0.8		
							51	16	31	2		72	12	12	3							
1/08/74	5701	305/27E-02A01	M	66	F		34	3.0	18	2.4	.2	119	19	13	7.0	--	.2	179	98			
	5701		19	C	7.4	289	1.70	.25	.78	.06	.01	1.95	.40	.37	.11		24.0	179	0	0.8		
							61	9	28	2		69	14	13	4							
3/20/74	5701	305/27E-02A02	M	66	F		30	3.0	21	2.2	.4	121	15	13	4.0	--	.2	173	90			
	5701		19	C	7.7	264	1.50	.25	.91	.06	.01	1.98	.31	.37	.06		24.0	172	0	1.0		
							55	9	33	2		73	11	14	2							
3/20/74	5701	305/27E-02F01	M	66	F		34	5.0	23	2.3	.2	119	19	25	7.0	--	.2	198	104			
	5701		19	C	7.4	304	1.70	.41	1.00	.06	.01	1.95	.40	.71	.11		25.0	199	8	1.0		
							54	13	32	2		61	13	22	3							
3/05/74	5701	305/27E-02M01	M	66	F		35	6.0	28	2.2	.2	136	24	16	13.0	--	.1	215	112			
	5701		19	C	7.4	332	1.75	.49	1.22	.06	.01	2.23	.50	.45	.21		24.0	215	0	1.2		
							50	14	35	2		66	15	13	6							
3/20/74	5701	305/27E-02M01	M	67	F		18	1.0	20	1.8	.6	91	10	8.0	3.0	--	.2	128	52			
	5701		19	C	8.0	186	.90	.08	.87	.00	.02	1.49	.21	.23	.05		20.0	125	0	1.2		
							49	4	47			75	11	12	3							
6/12/74	5701	305/27E-11002	M	66	F		26	3.0	19	2.1	.3	109	17	11	3.0	--	.2	156	78			
	5701		19	C	7.6	237	1.30	.25	.83	.05	.01	1.79	.35	.31	.05		22.0	157	0	0.9		
							53	10	34	2		71	14	12	2							
3/20/74	5701	305/27E-11601	M	66	F		31	5.0	21	2.0	.4	128	21	13	4.0	--	.2	187	100			
	5701		19	C	7.7	286	1.55	.41	.91	.05	.01	2.10	.44	.37	.06		26.0	186	0	0.9		
							53	14	31	2		70	15	12	2							
4/25/74	5701	305/27E-11M02	M	64	F		33	1.0	20	2.1	.3	114	20	13	4.0	--	.1	174	86			
	5701		18	C	7.7	264	1.65	.08	.87	.05	.01	1.87	.42	.37	.06		25.0	174	0	0.9		
							62	3	33	2		68	15	14	2							
9/05/74	5701	305/27E-12C01	M	66	F		46	9.0	32	2.8	.1	171	42	22	15.0	--	.1	280	152			
	5701		19	C	7.1	452	2.30	.74	1.39	.07	.00	2.80	.87	.62	.24		28.0	281	12	1.1		
							51	16	31	2		62	19	14	5							
5/08/74	5701	305/27E-12L02	M	68	F		48	6.0	25	2.9	.3	165	34	19	7.0	--	.2	252	144			
	5701		20	C	7.4	406	2.40	.49	1.09	.07	.01	2.70	.71	.54	.11		28.0	251	9	0.9		
							59	12	27	2		66	17	13	3							
6/12/74	5701						--	--	--	--	--	--	--	--	--	.40	--					
	5701															--	--					
9/05/74	5701	305/27E-12P01	M	68	F		27	4.0	19	1.9	.2	105	20	13	5.0	--	.2	169	85			
	5701		20	C	7.4	260	1.35	.33	.83	.05	.01	1.72	.42	.37	.08		27.0	169	0	0.9		
							53	13	32	2		66	16	14	3							
10/20/74	5701	305/27E-13M01	M	67	F		32	5.0	21	1.9	.5	126	21	12	4.0	--	.2	184	100			
	5701		19	C	7.8	285	1.60	.41	.91	.05	.02	2.07	.44	.34	.06		25.0	184	0	0.9		
							54	14	31	2		71	15	12	2							

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE				MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TM NCH	SAR	
CENTRAL VALLEY SAN JOAQUIN VALLEY																			
01/16/74	5701	66	F		35	2.0	18	2.4	.4	126	18	11	4.0	--	.2	178	96		
	5701	19	C	7.7	1.75 64	.16 6	.78 28	.06 2	.01	2.07 73	.37 13	.31 11	.06 2	--	24.0	177	0	0.8	
06/12/74	5701	64	F		36	6.0	20	2.3	.5	136	27	15	7.0	--	.2	203	116		
	5701	18	C	7.7	1.80 56	.49 15	.87 27	.06 2	.02	2.23 67	.56 17	.42 13	.11 3	--	22.0	203	2	0.8	
06/12/74	5701	64	F		36	5.0	20	2.4	.5	133	27	14	6.0	--	.2	196	110		
	5701	18	C	7.7	1.80 57	.41 13	.87 28	.06 2	.02	2.18 67	.56 17	.39 12	.10 3	--	20.0	196	1	0.8	
09/09/74	5701	--	--	--	--	--	--	--	--	--	--	--	--	.16	--	--	--	--	
03/20/74	5701	64	F		39	3.0	21	2.0	.6	133	26	14	1.0	--	.2	196	110		
	5701	18	C	7.8	1.95 62	.25 8	.91 29	.05 2	.02	2.18 69	.54 17	.39 12	.02 1	--	24.0	196	0	0.9	
05/08/74	5701	66	F		43	2.0	20	2.4	.4	138	28	15	5.0	--	.2	209	116		
	5701	19	C	7.6	2.15 66	.16 5	.87 27	.06 2	.01	2.26 67	.58 17	.42 13	.08 2	--	25.0	209	2	0.8	
06/12/74	5701	64	F		36	5.0	19	2.2	.4	134	26	14	6.0	--	.2	197	112		
	5701	18	C	7.6	1.80 58	.41 13	.83 27	.06 2	.01	2.20 68	.54 17	.39 12	.10 3	--	22.0	196	0	0.8	
02/14/74	5701	68	F		39	3.0	29	2.8	.2	129	38	20	8.0	--	.2	225	110		
	5701	20	C	7.3	1.95 55	.25 7	1.26 36	.07 2	.01	2.11 59	.79 22	.56 16	.13 4	--	21.0	224	4	1.2	
06/12/74	5701	68	F		62	9.0	32	2.6	.7	172	48	45	18.0	--	.1	326	192		
	5701	20	C	7.8	3.09 58	.74 14	1.39 26	.07 1	.02	2.82 52	1.00 19	1.27 24	.29 5	--	24.0	326	50	1.0	
08/13/74	5701	--	--	--	--	--	--	--	--	--	--	--	--	.31	--	--	--	--	
01/16/74	5701	67	F		50	3.0	25	3.1	.2	139	33	32	6.0	--	.1	245	140		
	5701	19	C	7.4	2.50 64	.25 6	1.09 28	.08 2	.01	2.28 57	.69 17	.90 23	.10 3	--	24.0	245	23	0.9	
02/14/74	5701	56	F		38	3.0	28	2.7	.2	131	28	23	9.0	--	.2	217	108		
	5701	13	C	7.4	1.90 55	.25 7	1.22 35	.07 2	.01	2.15 61	.58 16	.65 18	.15 4	--	21.0	217	0	1.2	
02/14/74	5701	68	F		70	7.0	37	3.3	.2	146	46	74	23.0	--	.1	359	206		
	5701	20	C	7.2	3.49 61	.58 10	1.61 28	.08 1	.01	2.39 41	.96 16	2.09 36	.37 6	--	26.0	358	84	1.1	
02/14/74	5701	68	F		18	1.0	30	2.3	.3	104	13	11	3.0	--	.2	149	50		
	5701	20	C	7.7	.90 38	.08 3	1.31 56	.06 3	.01	1.70 73	.27 12	.31 13	.05 2	--	18.0	148	0	1.9	
05/08/74	5701	68	F		42	6.0	27	2.9	.2	151	34	19	10.0	--	.1	240	128		
	5701	20	C	7.2	2.10 55	.49 13	1.17 31	.07 2	.01	2.47 63	.71 18	.54 14	.16 4	--	26.0	241	6	1.0	
04/17/74	5701	67	F		45	4.0	26	2.7	.1	139	26	36	4.0	--	.2	240	130		
	5701	19	C	7.2	2.25 60	.33 9	1.13 30	.07 2	.00	2.28 58	.54 14	1.02 26	.06 2	--	27.0	239	15	1.0	
09/09/74	5701	--	--	--	--	--	--	--	--	--	--	--	--	.16	--	--	--	--	
08/12/74	5701	66	F		46	9.0	25	2.7	.3	156	41	25	7.0	--	.1	263	152		
	5701	19	C	7.5	2.30 55	.74 18	1.09 26	.07 2	.01	2.56 60	.85 20	.71 17	.11 3	--	30.0	263	24	0.9	
02/14/74	5701	67	F		34	3.0	23	2.4	.1	124	25	18	7.0	--	.2	199	100		
	5701	19	C	7.2	1.70 56	.25 8	1.00 33	.06 2	.00	2.03 64	.52 16	.51 16	.11 3	--	25.0	198	0	1.0	

TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

DATE	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL ANALYSES OF	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REM
			PH	EC		CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH	NCH	SAR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																										
12/74	5701	305/28E-07H01	M																							
	5701	68 F 7.6 324	37 6.0 21 2.0 .4 136 26 16 9.0 -- .1 211 118	68 F 7.6 324	37 6.0 21 2.0 .4 136 26 16 9.0 -- .1 211 118	20 C 7.6 324	1.85 .49 .91 .05 .01 2.23 .54 .45 .15 26.0 210 5 0.8																			
12/74	5701	305/28E-07C01	M																							
	5701	68 F 7.3 372	40 8.0 25 2.8 .2 137 33 23 13.0 -- .1 240 132	68 F 7.3 372	40 8.0 25 2.8 .2 137 33 23 13.0 -- .1 240 132	20 C 7.3 372	2.00 .66 1.09 .07 .01 2.25 .69 .65 .21 28.0 240 20 0.9																			
12/74	5701	305/28E-07E01	M																							
	5701	67 F 7.5 268	32 3.0 20 2.3 .3 117 19 13 4.0 -- .1 178 94	67 F 7.5 268	32 3.0 20 2.3 .3 117 19 13 4.0 -- .1 178 94	19 C 7.5 268	1.60 .25 .87 .06 .01 1.92 .40 .37 .06 26.0 177 0 0.9																			
1/08/74	5701	305/28E-08B01	M																							
	5701	70 F 7.7 664	68 10 53 3.8 .5 160 126 46 12.0 -- .1 423 212	70 F 7.7 664	68 10 53 3.8 .5 160 126 46 12.0 -- .1 423 212	21 C 7.7 664	3.39 .82 2.31 .10 .02 2.62 .39 1.30 .19 24.0 422 79 1.6																			
1/14/74	5701	305/28E-08H02	M																							
	5701	71 F 7.0 314	29 3.0 32 2.8 .1 117 24 20 10.0 -- .2 198 84	71 F 7.0 314	29 3.0 32 2.8 .1 117 24 20 10.0 -- .2 198 84	22 C 7.0 314	1.45 .25 1.39 .07 .00 1.92 .50 .56 .16 19.0 197 0 1.5																			
1/05/74	5701	305/28E-18B01	M																							
	5701	70 F 7.7 400	42 8.0 27 2.2 .5 141 43 22 12.0 -- .2 249 137	70 F 7.7 400	42 8.0 27 2.2 .5 141 43 22 12.0 -- .2 249 137	21 C 7.7 400	2.10 .66 1.17 .06 .02 2.31 .90 .62 .19 25.0 251 22 1.0																			
1/20/74	5701	305/28E-18E01	M																							
	5701	67 F 7.7 301	36 4.0 21 1.8 .5 136 22 13 1.0 -- .2 194 108	67 F 7.7 301	36 4.0 21 1.8 .5 136 22 13 1.0 -- .2 194 108	19 C 7.7 301	1.80 .33 .91 .05 .02 2.23 .46 .37 .02 27.0 193 0 0.9																			
5/08/74	5701	305/28E-18K01	M																							
	5701	68 F 7.6 386	42 7.0 25 2.4 .3 143 39 21 7.0 -- .2 240 134	68 F 7.6 386	42 7.0 25 2.4 .3 143 39 21 7.0 -- .2 240 134	20 C 7.6 386	2.10 .58 1.09 .06 .01 2.34 .81 .59 .11 26.0 240 17 0.9																			

## TABLE E-2

### MINOR ELEMENT ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analyses of ground water by various agencies and laboratories. The code numbers listed below will identify the agency that collected the sample and the laboratory that conducted the analysis:

5050	California Department of Water Resources
5060	California Department of Health
5119	Kern County Health Department
5121	Kern County Water Agency
5123	Tulare County Farm Advisor
5200	City of Fresno
5205	City of Delano
5701	California Water Service Company
5702	Individual Owner
5720	Bakeman Water Company
5801	Braun, Skaggs, Kevorkian and Simons Laboratory
5802	Twining Laboratory
5806	B. C. Laboratory

#### Abbreviations

D	Dissolved
T	Total
REM	Remarks

TABLE E-2

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISC EC	TEMP PM	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
075/10E-18R80 M												
6/06/74 1500	5050 5050	130			--	--	--	0.25	0.32	--	--	
155/22E-31A01 M												
6/11/74 5701	5701		291	67 F 8.1	--	--	--	0.00 0.00	-- 0.00	--	-- 0.01	
155/22E-32L01 M												
6/15/74 5701	5701		161	69 F 8.2	--	--	--	0.00 0.00	-- 0.00	--	-- 0.02	
6/20/74 5701	5701				0.0000	0.0000	0.001	0.00	0.000	0.0012 0.0000	-- 0.00	
165/22E-05C01 M												
6/15/74 5701	5701		244	8.0	--	--	--	0.00 0.00	-- 0.00	--	-- 0.00	
165/22E-05C02 M												
6/06/74 5701	5701		205	71 F 7.7	--	--	--	0.01 0.00	-- 0.00	--	-- 0.10	
165/22E-05E01 M												
6/11/74 5701	5701		248	67 F 8.2	--	--	--	0.00 0.00	-- 0.00	--	-- 0.04	
165/22E-05E02 M												
6/15/74 5701	5701		147	69 F 8.2	--	--	--	0.00 0.00	-- 0.00	--	-- 0.02	
165/22E-05M01 M												
6/15/74 5701	5701		294	69 F 8.0	--	--	--	0.00 0.00	-- 0.00	--	-- 0.05	
165/22E-06G01 M												
6/06/74 5701	5701		304	70 F 7.9	--	--	--	0.01 0.01	-- 0.00	--	-- 0.02	
165/22E-06K01 M												
6/11/74 5701	5701		201	69 F 8.5	--	--	--	0.00 0.00	-- 0.00	--	-- 0.03	
165/22E-06Q01 M												
6/15/74 5701	5701		264	72 F 8.0	--	--	--	0.00 0.00	-- 0.00	--	-- 0.00	
165/22E-07A01 M												
6/15/74 5701	5701		394	70 F 8.0	0.0000	0.0000	0.003	0.01 0.00	0.00 0.00	0.0000	-- 0.02	
165/22E-07C02 M												
6/06/74 5701	5701		140	71 F 8.5	--	--	--	0.01 0.00	-- 0.00	--	-- 0.01	
185/24E-27R02 M												
6/15/74 5701	5701		186	65 F 7.6	--	--	--	0.00 0.00	-- 0.00	--	-- 0.12	
185/24E-35C02 M												
6/27/74 5701	5701		410	66 F 7.7	--	0.0	--	0.00 0.00	-- 0.00	--	-- 0.04	
185/24E-35C03 M												
6/27/74 5701	5701		422	66 F 7.6	--	0.0	--	0.00 0.00	-- 0.00	--	-- 0.02	
6/30/74 5701	5701				0.0027	0.0000	0.001	0.00	0.000	0.0008 0.0018	-- 0.02	
185/24E-35N01 M												
6/12/74 5701	5701		188	66 F 7.9	--	--	--	0.00 0.00	-- 0.00	--	-- 0.10	
185/24E-36C01 M												
6/12/74 5701	5701		175	66 F 7.9	--	--	--	0.00 0.00	-- 0.00	--	-- 0.05	

TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER				LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
						BARIUM CADIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON					
CENTRAL VALLEY SAN JOAQUIN VALLEY													
185/24E-36E01 M													
06/12/74	5701		234	66 F 7.7	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.08	
185/24E-36K01 M													
09/24/74	5701		221	66 F 7.9	--	--	--	0.01 0.14	-- 0.00	-- --	-- --	-- 0.01	
185/25E-14N01 M													
09/24/74	5701		228	65 F 7.4	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.02	
185/25E-19N01 M													
09/24/74	5701		190	66 F 8.2	--	--	--	0.00 0.01	-- 0.00	-- --	-- --	-- 0.02	
185/25E-19O01 M													
02/27/74	5701				0.0018	--	0.002	0.00 --	0.000 --	0.0005 0.0018	-- --	-- 0.00	
02/27/74	5701		181	65 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-20F01 M													
01/24/74	5701		283	64 F 7.6	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.03	
185/25E-27N01 M													
01/31/74	5701		179	64 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.18	
03/01/74	5701				0.0022	--	0.000	0.40 --	0.000 --	0.0002 0.0000	-- --	-- 0.03	
185/25E-27P01 M													
03/01/74	5701				0.0036	--	0.001	0.00 --	0.000 --	0.0003 0.0015	-- --	-- 0.08	
05/03/74	5701		176	64 F 7.8	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-28D01 M													
04/23/74	5701		182	63 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-28L01 M													
08/19/74	5701		255	66 F 7.5	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.01	
185/25E-29R01 M													
08/19/74	5701		177	68 F 7.6	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-29C01 M													
04/23/74	5701		184	64 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-29R01 M													
04/23/74	5701		229	64 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.02	
185/25E-30F01 M													
06/12/74	5701		175	65 F 7.8	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.05	
185/25E-30H1 M													
09/24/74	5701		323	66 F 7.9	--	--	--	0.01 0.00	-- 0.00	-- --	-- --	-- 0.02	
09/24/74	5701	185/25E-30H2	328	66 F 7.7	--	--	--	0.00 0.00	-- 0.01	-- --	-- --	-- 0.09	
185/25E-30N01 M													
08/19/74	5701		190	8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- --	-- 0.00	
185/25E-30R02 M													
05/15/74	5701		270	66 F 7.8	--	--	--	0.00 0.02	-- 0.00	-- --	-- --	-- 0.04	
06/12/74	5701				0.0029	--	0.002	0.00 --	0.000 --	0.0000 0.0022	-- --	-- 0.00	

TABLE E-2 (Continued)  
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	OISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
185/25F-31801 M												
2/23/74	5701			65 F		--	--	0.00	--	--	--	
	5701		271	7.9	--	--	--	0.00	0.00	--	0.00	
185/25F-31803 M												
2/24/74	5701			7.9	--	--	--	0.01	--	--	--	
	5701		241		--	--	--	0.00	0.00	--	0.04	
185/25E-31E01 M												
1/19/74	5701			68 F		--	--	0.01	--	--	--	
	5701		226	7.9	--	--	--	0.00	0.00	--	0.00	
185/25E-31K01 M												
2/27/74	5701			63 F		0.00	--	0.00	--	--	--	
	5701		241	7.8	--	--	--	0.00	0.00	--	0.01	
185/25F-31K01 M												
1/15/74	5701			65 F		--	--	0.00	--	--	--	
	5701		218	7.8	--	--	--	0.00	0.00	--	0.13	
185/25E-32E01 M												
2/23/74	5701			65 F		--	--	0.02	--	--	--	
	5701		193	7.9	--	--	--	0.00	0.00	--	0.00	
185/25E-32E02 M												
1/01/74	5701					--	0.001	0.00	0.000	0.0002	--	
	5701				0.0036	0.000	--	--	--	0.0007	0.08	
2/23/74	5701			64 F		--	--	0.00	--	--	--	
	5701		194	8.0	--	--	--	0.00	0.00	--	0.02	
185/25F-32G01 M												
1/15/74	5701			66 F		--	--	0.06	--	--	--	
	5701		265	7.9	--	--	--	0.00	0.00	--	0.30	
185/25F-32K01 M												
2/23/74	5701			65 F		--	--	0.00	--	--	--	
	5701		233	7.6	--	--	--	0.00	0.00	--	0.01	
195/24E-01G01 M												
1/19/74	5701			66 F		--	--	0.00	--	--	--	
	5701		346	7.7	--	--	--	0.00	0.00	--	0.00	
195/24E-01R01 M												
2/20/74	5701			62 F		--	--	0.00	--	--	--	
	5701		434	7.6	--	--	--	0.04	0.00	--	0.03	
195/24E-02H01 M												
1/15/73	5701					0.0	T	--	--	--	--	
	5701				--	--	--	0.02	T	--	--	
2/23/74	5701			65 F		--	--	0.00	--	--	--	
	5701		293	7.8	--	--	--	0.00	0.00	--	0.00	
195/24E-02H02 M												
2/27/74	5701			66 F		0.0	--	0.00	--	--	--	
	5701		283	7.9	--	--	--	0.00	0.00	--	0.00	
195/24E-02K01 M												
1/24/74	5701			67 F		--	--	0.00	--	--	--	
	5701		150	8.0	--	--	--	0.01	0.00	--	0.18	
195/25E-06E01 M												
2/24/74	5701			66 F		0.0	--	0.01	--	--	--	
	5701		172	8.1	--	--	--	0.00	0.00	--	0.01	
195/25E-06M01 M												
1/23/74	5701			64 F		--	--	0.00	--	--	--	
	5701		291	7.9	--	--	--	0.00	0.00	--	0.01	
195/25F-07A01 M												
2/24/74	5701			65 F		0.0	--	0.00	--	--	--	
	5701		266	7.7	--	--	--	0.00	0.00	--	0.05	
3/19/74	5701					0.06	0.001	0.00	0.00	0.0002	--	
	5701				0.001	0.001	--	--	--	0.010	0.00	

TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS PER LITER CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
215/15F-12001 M												
08/02/74 1025	5050 5050			7.7	0.00	T	--	--	--	--	--	
215/16E-15A01 M												
08/01/74 1230	5050 5050			8.0	0.00	T	--	--	--	--	--	
215/17E-14M01 M												
07/00/74 1250	5050 5050			7.9	0.00	T	--	--	--	--	--	
215/18E-12D02 M												
07/30/74 0905	5050 5050			8.3	0.00	T	--	--	--	--	--	
215/19E-19D01 M												
07/29/74 1310	5050 5050			8.0	0.00	T	--	--	--	--	--	
215/21E-26D01 M												
07/26/74 1000	5050 5050		1900	29.0C 7.3	0.01	T	--	--	--	--	--	
215/23F-18N01 M												
07/26/74 1300	5050 5050		1200	25.0C 7.1	0.00	T	--	--	--	--	--	
215/24E-17A01 M												
07/31/74 0945	5050 5050		450	22.0C 7.3	0.00	T	--	--	--	--	--	
215/26E-11R02 M												
08/02/74 0830	5050 5050		550	22.0C 7.1	0.00	T	--	--	--	--	--	
215/27F-07001 M												
08/05/74 0915	5050 5050		700	23.0C 6.9	0.00	T	--	--	--	--	--	
215/28E-15L02 M												
08/05/74 0930	5050 5050			7.3	0.02	T	--	--	--	--	--	
245/24E-09002 M												
10/10/73 5060	5060 5060				0.13	T	--	--	--	--	--	
10/24/73 1020	5060 5060				0.01	D	--	--	--	--	--	
11/13/73 1100	5060 5060				0.01	D	--	--	--	--	--	
11/13/73 1115	5060 5060				0.19	T	--	--	--	--	--	
12/10/73 1000	5060 5060				0.12	T	--	--	--	--	--	
12/10/73 1100	5060 5060				0.01	D	--	--	--	--	--	
255/25E-01F01 M												
01/02/74 5205 5806	5205 5806				0.01	D	--	--	0.05	T	0.01	T
255/25F-02M01 M												
01/02/74 5205 5806	5205 5806				0.01	D	--	--	0.05	T	0.01	T
255/25F-02R02 M												
01/02/74 5205 5806	5205 5806				0.01	D	--	--	0.05	T	0.01	T
255/25E-10A01 M												
01/02/74 5205 5806	5205 5806				0.01	D	--	--	0.05	T	0.01	T

### MINOR ELEMENT ANALYSIS OF GROUND WATER

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TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISC EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	R
CENTRAL VALLEY SAN JOAQUIN VALLEY												
29S/28F-16E01 M												
09/05/74	5701		257	66 F 7.6	--	--	--	0.00 0.04	-- 0.11	-- --	-- 0.05	
29S/28E-16M01 M												
01/16/74	5701		311	68 F 7.9	--	0.0 --	-- --	0.00 0.00	-- 0.04	-- --	-- 0.00	
29S/28F-16O01 M												
06/12/74	5701		286	68 F 7.5	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.07	
29S/28E-16R01 M												
09/05/74	5701		268	78 F 7.8	--	--	--	0.01 0.00	-- 0.02	-- --	-- 0.05	
29S/28E-17R01 M												
08/12/74	5701		401	72 F 7.6	--	--	--	0.01 0.02	-- 0.31	-- --	-- 0.05	
29S/28F-19J03 M												
01/16/74	5701		195	68 F 7.7	--	0.0 --	-- --	0.00 0.00	-- 0.03	-- --	-- 0.00	
29S/28E-19K01 M												
02/14/74	5701		236	66 F 7.4	--	0.0 --	-- --	0.00 0.00	-- 0.01	-- --	-- 0.01	
29S/28E-19L01 M												
05/08/74	5701		264	68 F 7.5	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.10	
29S/28F-19N02 M												
04/16/74	5701		286	67 F 7.7	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.04	
05/08/74	5701				0.0005	-- 0.000	0.000 --	0.00 --	0.000 --	0.0000 0.0014	-- 0.002	
29S/28F-19O01 M												
04/17/74	5701		224	67 F 8.2	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.03	
29S/28E-20A01 M												
01/16/74	5701		509	72 F 7.6	0.0025	0.0 0.000	0.000 --	0.00 0.04	0.000 0.07	0.0000 0.0011	-- 0.01	
29S/28E-20G02 M												
04/17/74	5701		572	74 F 7.5	--	-- 0.000	0.00 --	0.00 0.00	0.000 0.11	-- --	-- 0.00	
29S/28F-20H01 M												
03/20/74	5701		184	77 F 8.2	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.03	
29S/28F-20L01 M												
01/16/74	5701		433	72 F 7.7	--	0.0 --	-- --	0.00 0.00	-- 0.06	-- --	-- 0.10	
29S/28F-21C01 M												
09/05/74	5701		288	79 F 8.0	--	--	--	0.00 0.00	-- 0.03	-- --	-- 0.04	
29S/28E-21O01 M												
09/05/74	5701		330	78 F 7.9	--	--	--	0.00 0.00	-- 0.01	-- --	-- 0.04	
29S/28E-21E01 M												
02/14/74	5701		212	76 F 7.8	--	0.0 --	-- --	0.00 0.00	-- 0.01	-- --	-- 0.01	
29S/28F-21G01 M												
05/08/74	5701		250	80 F 8.3	--	--	--	0.00 0.00	-- 0.01	-- --	-- 0.10	
06/12/74	5701				0.0000	-- 0.000	0.001 --	0.00 --	0.000 --	0.000 0.0011	-- 0.00	

TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
29S/28E-21M01 M												
5/74	S701			73 F	--	0.0	--	0.00	--	--	--	
	S701		257	7.7	--	--	--	0.00	0.03	--	0.02	
29S/28E-29D01 M												
5/74	S701			69 F	--	0.0	--	0.00	--	--	--	
	S701		250	7.8	--	--	--	0.02	0.01	--	0.04	
29S/28E-29L01 M												
5/74	S701			72 F	--	--	--	0.00	--	--	--	
	S701		190	8.1	--	--	--	0.00	0.01	--	0.02	
29S/28E-29P01 M												
2/74	S701			74 F	--	--	--	0.00	--	--	--	
	S701		231	8.5	--	--	--	0.00	0.00	--	0.05	
29S/28E-29001 M												
2/74	S701			67 F	--	--	--	0.00	--	--	--	
	S701		314	8.3	--	--	--	0.00	0.02	--	0.03	
29S/28E-30A01 M												
8/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		210	7.8	--	--	--	0.00	0.00	--	0.10	
29S/28E-30F02 M												
2/74	S701			67 F	--	--	--	0.01	--	--	--	
	S701		302	7.4	--	--	--	0.00	0.00	--	0.07	
29S/28E-30G01 M												
7/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		328	7.8	--	--	--	0.01	0.00	--	0.02	
29S/28E-30H02 M												
7/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		215	7.6	--	--	--	0.04	0.00	--	0.01	
29S/28E-30U02 M												
2/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		295	7.5	--	--	--	0.00	0.00	--	0.00	
29S/28E-30004 M												
2/74	S701			68 F	--	--	--	0.01	--	--	--	
	S701		291	7.4	--	--	--	0.01	0.00	--	0.07	
29S/28E-31B02 M												
2/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		289	7.5	--	--	--	0.00	0.00	--	0.13	
29S/28E-31B04 M												
7/74	S701			67 F	--	--	--	0.00	--	--	--	
	S701		282	8.1	--	--	--	0.00	0.00	--	0.03	
8/74	S701				0.0022	0.000	0.000	0.00	0.000	0.0000	--	
	S701						--	--	--	0.0004	0.01	
29S/28E-31R05 M												
5/74	S701			68 F	--	0.0	--	0.00	--	--	--	
	S701		224	8.0	--	--	--	0.00	0.00	--	0.09	
29S/28E-31F02 M												
4/74	S701			67 F	--	0.0	--	0.00	--	--	--	
	S701		341	7.2	--	--	--	0.00	0.00	--	0.00	
29S/28E-31J02 M												
5/74	S701			67 F	--	0.0	--	0.00	--	--	--	
	S701		252	7.7	--	--	--	0.00	0.01	--	0.01	
29S/28E-31K02 M												
2/74	S701			68 F	--	--	--	0.01	--	--	--	
	S701		310	7.2	--	--	--	0.00	0.00	--	0.07	
29S/28E-31003 M												
7/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		418	7.4	--	--	--	0.00	0.00	--	0.04	

TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
CENTRAL VALLEY SAN JOAQUIN VALLEY											
295/28E-32001 M											
09/05/74	5701		646	72 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.03
295/28E-32L01 M											
08/14/74	5701		774	72 F 8.0	--	--	--	0.00 0.03	-- 0.00	-- --	-- 0.03
295/28E-32N01 M											
03/20/74	5701		318	70 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.00
295/28E-32R01 M											
03/20/74	5701		816	72 F 7.8	--	0.0 --	-- --	0.01 0.01	-- 0.00	-- --	-- 0.01
295/28E-32R02 M											
02/14/74	5701		971	72 F 7.4	--	0.0 --	-- --	0.01 0.00	-- 0.00	-- --	-- 0.01
295/28E-34J01 M											
05/08/74	5701		2448	78 F 7.6	--	--	--	0.00 0.03	-- 0.00	-- --	-- 0.20
295/28E-35E03 M											
04/17/74	5701		758	78 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.03
305/27E-01802 M											
05/08/74	5701		204	67 F 7.7	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.10
305/27E-01G02 M											
06/12/74	5701		613	68 F 7.3	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.11
305/27E-01J01 M											
04/17/74	5701		256	68 F 7.7	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.02
305/27E-01K01 M											
04/17/74	5701		361	67 F 7.4	--	--	--	0.01 0.00	-- 0.00	-- --	-- 0.00
04/17/74	5701				0.005	0.11 0.000	0.000 --	0.00 --	0.00 --	0.0000 0.005	-- 0.04
305/27E-01M01 M											
04/17/74	5701		242	68 F 7.8	--	--	--	0.07 0.07	-- 0.00	-- --	-- 0.03
305/27E-02A01 M											
05/08/74	5701		289	66 F 7.4	--	--	--	0.00 0.02	-- 0.00	-- --	-- 0.08
305/27E-02A02 M											
03/20/74	5701		264	66 F 7.7	--	0.0 --	-- --	0.00 0.00	-- 0.00	-- --	-- 0.00
305/27E-02F01 M											
03/20/74	5701		304	66 F 7.4	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.06
305/27E-02H01 M											
09/05/74	5701		332	66 F 7.4	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.04
305/27E-02R01 M											
03/20/74	5701		186	67 F 8.0	--	--	--	0.00 0.00	-- 0.00	-- --	-- 0.00

TABLE E-2 (Continued)

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CAIUM	IN MILLIGRAMS CMROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
30S/27E-11002 M												
12/74	S701			66 F	--	--	--	0.00	--	--	--	
	S701		237	7.6	--	--	--	0.00	0.00	--	0.11	
30S/27E-11001 M												
20/74	S701			66 F	--	--	--	0.00	--	--	--	
	S701		286	7.7	--	--	--	0.00	0.00	--	0.00	
30S/27F-11002 M												
25/74	S701			64 F	--	--	--	0.01	--	--	--	
	S701		264	7.7	--	--	--	0.00	0.01	--	0.02	
30S/27F-12001 M												
05/74	S701			66 F	--	--	--	0.05	--	--	--	
	S701		452	7.1	--	--	--	0.00	0.00	--	0.18	
30S/27E-12002 M												
08/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		406	7.4	--	--	--	0.00	0.00	--	0.12	
12/74	S701					--	0.002	0.00	0.000	0.0000	--	
	S701				0.0000	0.000	--	--	--	0.0022	0.00	
30S/27E-12001 M												
05/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		260	7.4	--	--	--	0.00	0.00	--	0.02	
30S/27E-13001 M												
20/74	S701			67 F	--	--	--	0.00	--	--	--	
	S701		285	7.8	--	--	--	0.00	0.00	--	0.03	
30S/27E-13002 M												
14/74	S701			66 F	--	0.0	--	0.00	--	--	--	
	S701		277	7.7	--	--	--	0.02	0.00	--	0.00	
30S/27E-23002 M												
12/74	S701			64 F	--	--	--	0.00	--	--	--	
	S701		318	7.7	--	--	--	0.00	0.00	--	0.04	
30S/27E-23003 M												
12/74	S701			64 F	--	--	--	0.00	--	--	--	
	S701		314	7.7	--	--	--	0.00	0.00	--	0.06	
09/74	S701					0.004	0.002	0.00	0.00	0.0000	--	
	S701					0.000	--	--	--	0.000	0.00	
30S/27E-23004 M												
20/74	S701			64 F	--	--	--	0.00	--	--	--	
	S701		305	7.8	--	--	--	0.00	0.00	--	0.00	
30S/27E-23001 M												
08/74	S701			66 F	--	--	--	0.00	--	--	--	
	S701		333	7.6	--	--	--	0.03	0.00	--	0.12	
30S/27E-23002 M												
12/74	S701			64 F	--	--	--	0.00	--	--	--	
	S701		309	7.6	--	--	--	0.02	0.00	--	0.13	
30S/28E-05001 M												
4/74	S701			68 F	--	0.0	--	0.01	--	--	--	
	S701		358	7.3	--	--	--	0.00	0.00	--	0.00	
30S/28E-05001 M												
2/74	S701			68 F	--	--	--	0.00	--	--	--	
	S701		526	7.8	--	--	--	0.06	0.00	--	0.10	
3/74	S701					0.13	0.002	0.00	0.00	0.0001	--	
	S701				0.003	0.000	--	--	--	0.005	0.03	
30S/28E-05001 M												
6/74	S701			67 F	--	0.0	--	0.02	--	--	--	
	S701		405	7.4	--	--	--	0.06	0.00	--	0.18	
30S/28E-05001 M												
2/74	S701			56 F	--	0.0	--	0.00	--	--	--	
	S701		351	7.4	--	--	--	0.00	0.00	--	0.00	
30S/28E-05001 M												
2/74	S701			68 F	--	0.0	--	0.01	--	--	--	
	S701		607	7.2	--	--	--	0.00	0.00	--	0.02	

## MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CAOMIUM	IN MILLIGRAMS PER LITER CHROM (ALL) CHROM (MEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
CENTRAL VALLEY SAN JOAQUIN VALLEY											
305/28E-05N01 M											
02/14/74	5701			68 F		0.0	--	0.00	--	--	--
	5701		231	7.7	--	--	--	0.00	0.00	--	0.00
305/28E-06C02 M											
05/08/74	5701			68 F		--	--	0.00	--	--	--
	5701		388	7.2	--	--	--	0.00	0.00	--	0.10
305/28E-06C03 M											
04/17/74	5701			67 F		--	--	0.00	--	--	--
	5701		385	7.2	--	--	--	0.00	0.00	--	0.02
09/09/74	5701					0.10	0.002	0.00	0.00	0.0000	--
	5701				0.007	0.000	--	--	--	0.007	0.02
305/28E-06G02 M											
08/12/74	5701			66 F		--	--	0.00	--	--	--
	5701		413	7.5	--	--	--	0.00	0.00	--	0.03
305/28E-06M01 M											
02/14/74	5701			67 F		0.0	--	0.00	--	--	--
	5701		315	7.2	--	--	--	0.00	0.00	--	0.02
305/28E-07B01 M											
06/12/74	5701			68 F		--	--	0.01	--	--	--
	5701		324	7.6	--	--	--	0.00	0.00	--	0.06
305/28E-07C01 M											
08/12/74	5701			68 F		--	--	0.01	--	--	--
	5701		372	7.3	--	--	--	0.02	0.00	--	0.04
305/28E-07E01 M											
03/20/74	5701			67 F		--	--	0.01	--	--	--
	5701		268	7.5	--	--	--	0.01	0.00	--	0.07
305/28E-08B01 M											
05/08/74	5701			70 F		--	--	0.00	--	--	--
	5701		664	7.7	--	--	--	0.00	0.00	--	0.12
305/28E-08M02 M											
02/14/74	5701			71 F		0.0	--	0.00	--	--	--
	5701		314	7.0	--	--	--	0.00	0.00	--	0.00
305/28E-18B01 M											
09/05/74	5701			70 F		--	--	0.01	--	--	--
	5701		400	7.7	--	--	--	0.00	0.00	--	0.01
305/28E-18E01 M											
03/20/74	5701			67 F		--	--	0.00	--	--	--
	5701		301	7.7	--	--	--	0.00	0.00	--	0.03
305/28E-18K01 M											
05/08/74	5701			68 F		--	--	0.00	--	--	--
	5701		386	7.6	--	--	--	0.00	0.00	--	0.40

TABLE E-3  
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. Listed below are definitions of abbreviations and codes used in this table:

Codes

5701 California Water Service Company

Abbreviations

T Total

REM Remarks

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP PH	ALUMINUM	ANTIMONY BERYLLIUM	IN MILLIGRAMS PER LITER BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
155/22E-31A01 M												
04/11/74	5701		67 F						0.000	--	--	
	5701		291 8.1	--	--	--	--	--	--	0.30	--	
155/22E-32L01 M												
05/15/74	5701		69 F						0.000	--	--	
	5701		161 8.2	--	--	--	--	--	--	0.20	--	
165/22E-05C01 M												
09/15/74	5701		8.0						0.000	--	--	
	5701		244	--	--	--	--	--	--	0.22	--	
165/22E-05C02 M												
08/06/74	5701		71 F						0.000	--	--	
	5701		205 7.7	--	--	--	--	--	--	0.08	--	
165/22E-05E01 M												
04/11/74	5701		67 F						0.000	--	--	
	5701		248 8.2	--	--	--	--	--	--	0.16	--	
165/22E-05E02 M												
05/15/74	5701		69 F						0.000	--	--	
	5701		147 8.2	--	--	--	--	--	--	0.10	--	
165/22E-05H01 M												
05/15/74	5701		69 F						0.000	--	--	
	5701		294 8.0	--	--	--	--	--	--	0.21	--	
165/22E-06G01 M												
08/06/74	5701		70 F						0.000	--	--	
	5701		304 7.9	--	--	--	--	--	--	0.16	--	
165/22E-06K01 M												
04/11/74	5701		69 F						0.000	--	--	
	5701		201 8.5	--	--	--	--	--	--	0.20	--	
165/22E-06O01 M												
09/15/74	5701		72 F						0.000	--	--	
	5701		264 8.0	--	--	--	--	--	--	0.24	--	
165/22E-07A01 M												
09/15/74	5701		70 F						0.004	--	--	
	5701		394 8.0	--	--	--	--	--	--	0.38	--	
165/22E-07C02 M												
08/06/74	5701		71 F						0.000	--	--	
	5701		140 8.5	--	--	--	--	--	--	0.06	--	
185/24E-27R02 M												
05/15/74	5701		65 F						0.000	--	--	
	5701		186 7.6	--	--	--	--	--	--	0.16	--	
185/24E-35C02 M												
02/27/74	5701		66 F						0.000	--	--	
	5701		410 7.7	--	--	--	--	--	--	0.26	--	
185/24E-35C03 M												
02/27/74	5701		66 F						0.000	--	--	
	5701		422 7.6	--	--	--	--	--	--	0.34	--	
185/24E-35N01 M												
06/12/74	5701		66 F						0.000	--	--	
	5701		188 7.9	--	--	--	--	--	--	0.23	--	
185/24E-36C01 M												
06/12/74	5701		66 F						0.000	--	--	
	5701		175 7.9	--	--	--	--	--	--	0.18	--	
185/24E-36E01 M												
06/12/74	5701		66 F						0.000	--	--	
	5701		234 7.7	--	--	--	--	--	--	0.30	--	
185/24E-36K01 M												
09/24/74	5701		66 F						0.000	--	--	
	5701		221 7.9	--	--	--	--	--	--	0.28	--	

TABLE E-3 (Continued)

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PM	ALUMINUM	CONSTITUENTS ANTIMONY BERYLLIUM	IN MILLIGRAMS BISMUTH COBALT	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
185/25E-14N01 M												
9/24/74	5701			65 F		--	--	--	0.000	--	--	
	5701		228	7.4	--	--	--	--	--	0.20	--	
185/25E-19N01 M												
9/24/74	5701			66 F		--	--	--	0.000	--	--	
	5701		190	8.2	--	--	--	--	--	0.18	--	
185/25E-19001 M												
2/27/74	5701			65 F		--	--	--	0.000	--	--	
	5701		181	8.0	--	--	--	--	--	0.16	--	
185/25E-20F01 M												
1/24/74	5701			64 F		--	--	--	0.000	--	--	
	5701		283	7.6	--	--	--	--	--	0.28	--	
185/25E-27N01 M												
1/31/74	5701			64 F		--	--	--	0.000	--	--	
	5701		179	8.0	--	--	--	--	--	0.24	--	
185/25E-27P01 M												
5/03/74	5701			64 F		--	--	--	0.00	--	--	
	5701		176	7.8	--	--	--	--	--	0.09	--	
185/25E-28001 M												
4/23/74	5701			63 F		--	--	--	0.000	--	--	
	5701		182	8.0	--	--	--	--	--	0.17	--	
185/25E-28L01 M												
8/19/74	5701			66 F		--	--	--	0.000	--	--	
	5701		255	7.5	--	--	--	--	--	0.12	--	
185/25E-29801 M												
8/19/74	5701			68 F		--	--	--	0.000	--	--	
	5701		177	7.6	--	--	--	--	--	0.09	--	
185/25E-29001 M												
4/23/74	5701			64 F		--	--	--	0.000	--	--	
	5701		184	8.0	--	--	--	--	--	0.17	--	
185/25E-29R01 M												
4/23/74	5701			64 F		--	--	--	0.000	--	--	
	5701		229	8.0	--	--	--	--	--	0.21	--	
185/25E-30F01 M												
6/12/74	5701			65 F		--	--	--	0.000	--	--	
	5701		175	7.8	--	--	--	--	--	0.20	--	
185/25E-30H01 M												
9/24/74	5701			66 F		--	--	--	0.000	--	--	
	5701		323	7.9	--	--	--	--	--	0.33	--	
185/25E-30R02 M												
9/24/74	5701			66 F		--	--	--	0.000	--	--	
	5701		328	7.7	--	--	--	--	--	0.32	--	
185/25E-30N01 M												
8/19/74	5701					--	--	--	0.000	--	--	
	5701		190	8.0	--	--	--	--	--	0.10	--	
185/25E-30R02 M												
5/15/74	5701			66 F		--	--	--	0.000	--	--	
	5701		270	7.8	--	--	--	--	--	0.28	--	
185/25E-31B01 M												
4/23/74	5701			65 F		--	--	--	0.000	--	--	
	5701		271	7.9	--	--	--	--	--	0.30	--	
185/25E-31B03 M												
9/24/74	5701					--	--	--	0.00	--	--	
	5701		241	7.9	--	--	--	--	--	0.23	--	
185/25E-31E01 M												
8/19/74	5701			68 F		--	--	--	0.000	--	--	
	5701		226	7.9	--	--	--	--	--	0.14	--	

TABLE E-3 (Continued)

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME		SAMP LAB	DEPTH	DISCH EC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER		LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
							ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM		
CENTRAL VALLEY SAN JOAQUIN VALLEY											
185/25E-31K01 M											
02/27/74	5701				63 F					0.000	--
	5701		241		7.8	--	--	--	--	--	0.21
185/25F-31R01 M											
05/15/74	5701				65 F					0.000	--
	5701		218		7.8	--	--	--	--	--	0.26
185/25E-32E01 M											
04/23/74	5701				65 F					0.000	--
	5701		193		7.9	--	--	--	--	--	0.28
185/25E-32F02 M											
04/23/74	5701				64 F					0.000	--
	5701		194		8.0	--	--	--	--	--	0.18
185/25F-32G01 M											
05/15/74	5701				66 F					0.000	--
	5701		265		7.9	--	--	--	--	--	0.26
185/25F-32K01 M											
04/23/74	5701				65 F					0.000	--
	5701		233		7.6	--	--	--	--	--	0.18
195/24E-01G01 M											
08/19/74	5701				66 F					0.000	--
	5701		346		7.7	--	--	--	--	--	0.21
195/24E-01P01 M											
05/20/74	5701				62 F					0.000	--
	5701		434		7.6	--	--	--	--	--	0.53
195/24E-02H01 M											
11/15/73	5701				65 F					0.000	T
	5701		290		7.5	--	--	--	--	--	0.31
04/23/74	5701				65 F					0.000	--
	5701		293		7.8	--	--	--	--	--	0.20
195/24E-02H02 M											
02/27/74	5701				66 F					0.000	--
	5701		283		7.9	--	--	--	--	--	0.30
195/24E-02K01 M											
09/24/74	5701				67 F					0.000	--
	5701		150		8.0	--	--	--	--	--	0.16
195/25E-06E01 M											
01/24/74	5701				66 F					0.000	--
	5701		172		8.1	--	--	--	--	--	0.20
195/25E-06H01 M											
04/23/74	5701				64 F					0.000	--
	5701		291		7.9	--	--	--	--	--	0.36
195/25F-07A01 M											
01/24/74	5701				65 F					0.000	--
	5701		266		7.7	--	--	--	--	--	0.32
295/27E-23H01 M											
02/14/74	5701				66 F					0.003	--
	5701		249		7.5	--	--	--	--	--	0.20
295/27E-25B02 M											
09/05/74	5701				68 F					0.002	--
	5701		260		7.4	--	--	--	--	--	0.12
295/27E-25O02 M											
08/13/74	5701				7.8					0.003	--
	5701		238			--	--	--	--	--	0.11
295/27E-25G01 M											
05/08/74	5701				66 F					0.004	--
	5701		218		7.6	--	--	--	--	--	0.19

TABLE E-3 (Continued)

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ALUMINUM	CONSTITUENTS ANTIMONY RERYLLIUM	IN MILLIGRAMS RISMUTH COBALT	PER LITER GALLIUM GERMANIUM	LITHIUM POLYBODENIUM	NICKEL STRONTIUM	TITANIUM VANADIUM	RFM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
295/27F-25G02 M												
05/74	5701			66 F		--	--	--	0.000	--	--	
	5701		252	7.6	--	--	--	--	--	0.13	--	
295/27E-25R01 M												
16/74	5701			66 F		--	--	--	0.005	--	--	
	5701		244	7.4	--	--	--	--	--	0.20	--	
295/27F-26J01 M												
20/74	5701			65 F		--	--	--	0.005	--	--	
	5701		221	8.0	--	--	--	--	--	0.20	--	
295/27E-35A02 M												
12/74	5701			67 F		--	--	--	0.002	--	--	
	5701		199	7.8	--	--	--	--	--	0.10	--	
295/27E-35E01 M												
16/74	5701			66 F		--	--	--	0.002	--	--	
	5701		246	7.5	--	--	--	--	--	0.26	--	
295/27E-35G01 M												
12/74	5701			68 F		--	--	--	0.002	--	--	
	5701		271	7.4	--	--	--	--	--	0.11	--	
295/27E-36H01 M												
12/74	5701			68 F		--	--	--	0.008	--	--	
	5701		475	7.2	--	--	--	--	--	0.23	--	
295/27E-36K01 M												
14/74	5701			65 F		--	--	--	0.000	--	--	
	5701		212	7.5	--	--	--	--	--	0.22	--	
12/74	5701			67 F		--	--	--	0.002	--	--	
	5701		245	7.5	--	--	--	--	--	0.14	--	
295/28E-16E01 M												
05/74	5701			66 F		--	--	--	0.000	--	--	
	5701		257	7.6	--	--	--	--	--	0.14	--	
295/28E-16M01 M												
16/74	5701			68 F		--	--	--	0.000	--	--	
	5701		311	7.9	--	--	--	--	--	0.42	--	
295/28E-16Q01 M												
12/74	5701			68 F		--	--	--	0.004	--	--	
	5701		286	7.5	--	--	--	--	--	0.32	--	
295/28E-16R01 M												
05/74	5701			78 F		--	--	--	0.000	--	--	
	5701		268	7.8	--	--	--	--	--	0.29	--	
295/28E-17R01 M												
12/74	5701			72 F		--	--	--	0.000	--	--	
	5701		401	7.6	--	--	--	--	--	0.21	--	
295/28E-19J03 M												
16/74	5701			68 F		--	--	--	0.000	--	--	
	5701		195	7.7	--	--	--	--	--	0.16	--	
295/28E-19K01 M												
14/74	5701			66 F		--	--	--	0.000	--	--	
	5701		236	7.4	--	--	--	--	--	0.20	--	
295/28E-19L01 M												
08/74	5701			68 F		--	--	--	0.000	--	--	
	5701		264	7.5	--	--	--	--	--	0.27	--	
295/28E-19N02 M												
16/74	5701			57 F		--	--	--	0.000	--	--	
	5701		286	7.7	--	--	--	--	--	0.24	--	
295/28F-19Q01 M												
17/74	5701			67 F		--	--	--	0.000	--	--	
	5701		224	8.2	--	--	--	--	--	0.12	--	

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP °F	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY RERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REP
CENTRAL VALLEY SAN JOAQUIN VALLEY												
			29S/2RF-20A01	M								
01/16/74	5701			72 F		--	--	--	0.000	--	--	
	5701		509	7.6	--	--	--	--	--	0.46	--	
			29S/2RF-20G02	M								
04/17/74	5701			74 F		--	--	--	0.000	--	--	
	5701		572	7.5	--	--	--	--	--	0.66	--	
			29S/28E-20H01	M								
03/20/74	5701			77 F		--	--	--	0.000	--	--	
	5701		184	8.2	--	--	--	--	--	0.35	--	
			29S/28F-20L01	M								
01/16/74	5701			72 F		--	--	--	0.000	--	--	
	5701		433	7.7	--	--	--	--	--	0.28	--	
			29S/28F-21C01	M								
09/05/74	5701			79 F		--	--	--	0.000	--	--	
	5701		288	8.0	--	--	--	--	--	0.34	--	
			29S/28F-21D01	M								
09/05/74	5701			78 F		--	--	--	0.000	--	--	
	5701		330	7.9	--	--	--	--	--	0.28	--	
			29S/28E-21E01	M								
02/14/74	5701			76 F		--	--	--	0.000	--	--	
	5701		212	7.8	--	--	--	--	--	0.30	--	
			29S/28F-21G01	M								
05/08/74	5701			80 F		--	--	--	0.002	--	--	
	5701		250	8.3	--	--	--	--	--	0.50	--	
			29S/28F-21H01	M								
01/16/74	5701			73 F		--	--	--	0.000	--	--	
	5701		257	7.7	--	--	--	--	--	0.20	--	
			29S/28E-29D01	M								
01/16/74	5701			69 F		--	--	--	0.000	--	--	
	5701		250	7.8	--	--	--	--	--	0.26	--	
			29S/28F-29L01	M								
09/05/74	5701			72 F		--	--	--	0.000	--	--	
	5701		190	8.1	--	--	--	--	--	0.16	--	
			29S/28F-29P01	M								
08/12/74	5701			74 F		--	--	--	0.000	--	--	
	5701		231	8.5	--	--	--	--	--	0.07	--	
			29S/28E-29Q01	M								
06/12/74	5701			67 F		--	--	--	0.002	--	--	
	5701		314	8.3	--	--	--	--	--	0.18	--	
			29S/28E-30A01	M								
05/08/74	5701			68 F		--	--	--	0.000	--	--	
	5701		210	7.8	--	--	--	--	--	0.22	--	
			29S/28E-30F02	M								
06/12/74	5701			67 F		--	--	--	0.004	--	--	
	5701		302	7.4	--	--	--	--	--	0.31	--	
			29S/28F-30G01	M								
04/17/74	5701			68 F		--	--	--	0.000	--	--	
	5701		328	7.8	--	--	--	--	--	0.28	--	
			29S/28F-30H02	M								
04/17/74	5701			68 F		--	--	--	0.000	--	--	
	5701		215	7.6	--	--	--	--	--	0.20	--	
			29S/28F-30I02	M								
08/12/74	5701			68 F		--	--	--	0.004	--	--	
	5701		295	7.5	--	--	--	--	--	0.14	--	

TABLE E-3 (Continued)

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

SAMP LAR	DEPTH	DITCH EC	TEMP PH	ALUMINUM	CONSTITUENTS ANTIMONY RERYLLIUM	IN MILLIGRAMS BISMUTH COBALT	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY											
295/28F-30004 M											
74 5701		291	68 F 7.4	--	--	--	--	0.004	-- 0.14	--	--
295/28E-31R02 M											
74 5701		289	68 F 7.5	--	--	--	--	0.008	-- 0.26	--	--
295/28E-31R04 M											
74 5701		282	67 F 8.1	--	--	--	--	0.000	-- 0.28	--	--
295/28E-31R05 M											
74 5701		224	68 F 8.0	--	--	--	--	0.000	-- 0.16	--	--
295/28F-31F02 M											
74 5701		341	67 F 7.2	--	--	--	--	0.002	-- 0.22	--	--
295/28F-31J02 M											
74 5701		252	67 F 7.7	--	--	--	--	0.001	-- 0.17	--	--
295/28F-31K02 M											
74 5701		310	68 F 7.2	--	--	--	--	0.010	-- 0.25	--	--
295/28F-31003 M											
74 5701		418	68 F 7.4	--	--	--	--	0.008	-- 0.44	--	--
295/28E-32001 M											
74 5701		646	72 F 8.0	--	--	--	--	0.000	-- 0.46	--	--
295/28E-32L01 M											
74 5701		774	72 F 8.0	--	--	--	--	0.004	-- 0.62	--	--
295/28F-32N01 M											
74 5701		318	70 F 8.0	--	--	--	--	0.007	-- 0.36	--	--
295/28F-32R01 M											
74 5701		816	72 F 7.8	--	--	--	--	0.008	-- 1.24	--	--
295/28E-32R02 M											
74 5701		971	72 F 7.4	--	--	--	--	0.004	-- 1.06	--	--
295/28E-34J01 M											
74 5701		2448	78 F 7.6	--	--	--	--	0.016	-- 3.20	--	--
295/28F-35E03 M											
74 5701		758	78 F 8.0	--	--	--	--	0.005	-- 0.68	--	--
305/27E-01R02 M											
74 5701		204	67 F 7.7	--	--	--	--	0.002	-- 0.34	--	--
305/27E-01G02 M											
74 5701		613	68 F 7.3	--	--	--	--	0.022	-- 0.61	--	--
305/27E-01J01 M											
74 5701		256	68 F 7.7	--	--	--	--	0.004	-- 0.42	--	--

TABLE E-3 (Continued)

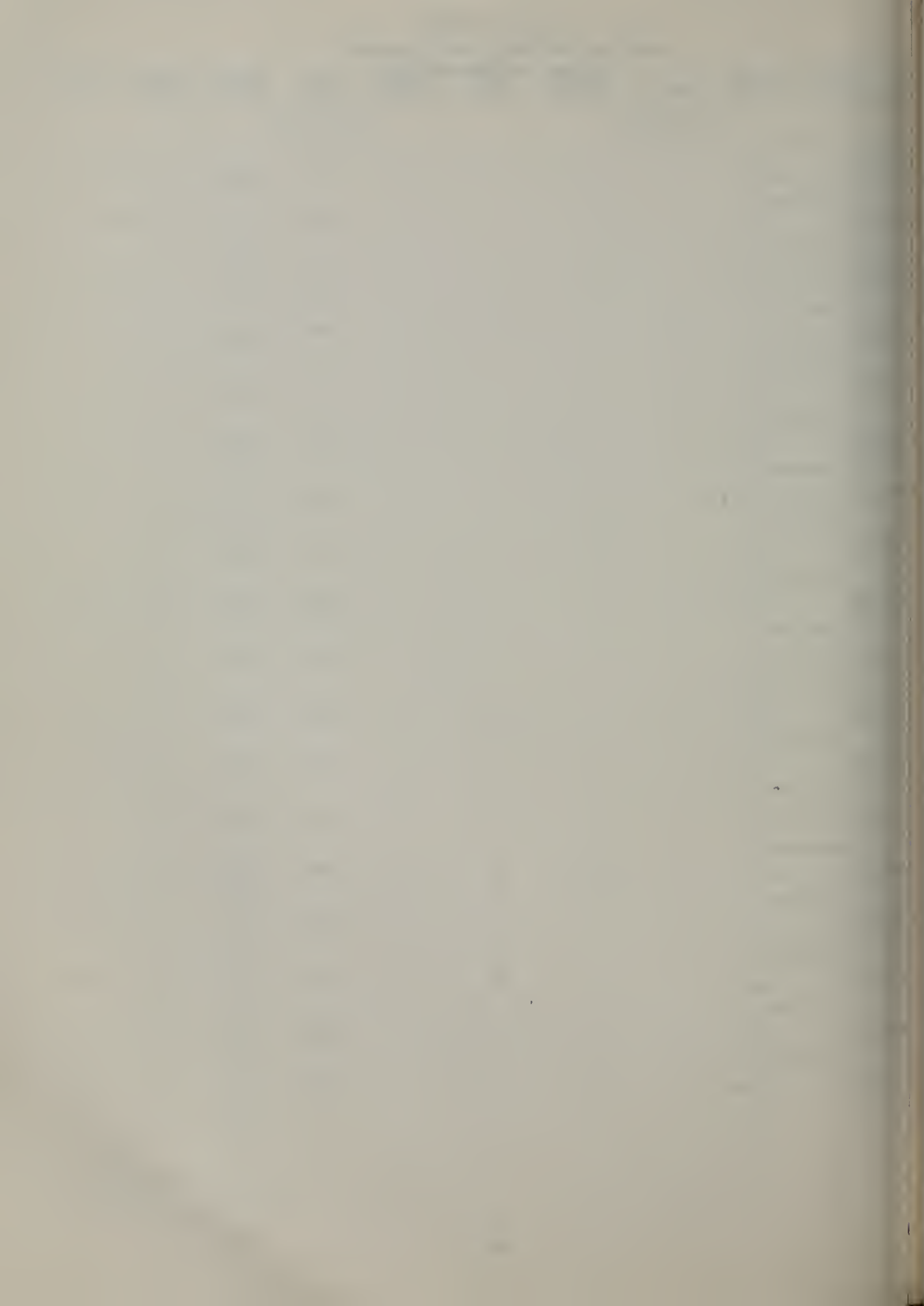
## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM	RISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
CENTRAL VALLEY SAN JOAQUIN VALLEY											
30S/27E-01K01 M											
04/17/74	5701		361	67 F 7.4	--	--	--	--	0.008 --	-- 0.56	--
30S/27E-01M01 M											
04/17/74	5701		242	68 F 7.8	--	--	--	--	0.000 --	-- 0.18	--
30S/27E-02A01 M											
05/08/74	5701		289	66 F 7.4	--	--	--	--	0.011 --	-- 0.24	--
30S/27E-02A02 M											
03/20/74	5701		264	66 F 7.7	--	--	--	--	0.005 --	-- 0.31	--
30S/27E-02F01 M											
03/20/74	5701		304	66 F 7.4	--	--	--	--	0.008 --	-- 0.32	--
30S/27E-02H01 M											
09/05/74	5701		332	66 F 7.4	--	--	--	--	0.003 --	-- 0.16	--
30S/27E-02R01 M											
03/20/74	5701		186	67 F 8.0	--	--	--	--	0.000 --	-- 0.22	--
30S/27E-11002 M											
06/12/74	5701		237	66 F 7.6	--	--	--	--	0.006 --	-- 0.24	--
30S/27E-11G01 M											
03/20/74	5701		246	66 F 7.7	--	--	--	--	0.010 --	-- 0.26	--
30S/27E-11M02 M											
04/25/74	5701		264	64 F 7.7	--	--	--	--	0.008 --	-- 0.21	--
30S/27E-12C01 M											
09/05/74	5701		452	66 F 7.1	--	--	--	--	0.013 --	-- 0.23	--
30S/27E-12L02 M											
05/08/74	5701		406	68 F 7.4	--	--	--	--	0.012 --	-- 0.30	--
30S/27E-12R01 M											
09/05/74	5701		260	68 F 7.4	--	--	--	--	0.007 --	-- 0.12	--
30S/27E-13M01 M											
03/20/74	5701		285	67 F 7.8	--	--	--	--	0.004 --	-- 0.25	--
30S/27E-13M02 M											
01/16/74	5701		277	66 F 7.7	--	--	--	--	0.004 --	-- 0.22	--
30S/27E-23C02 M											
06/12/74	5701		318	64 F 7.7	--	--	--	--	0.010 --	-- 0.30	--
30S/27E-23C03 M											
06/12/74	5701		314	64 F 7.7	--	--	--	--	0.008 --	-- 0.30	--
30S/27E-23C04 M											
03/20/74	5701		305	64 F 7.8	--	--	--	--	0.008 --	-- 0.26	--
30S/27E-23D01 M											
05/08/74	5701		333	66 F 7.6	--	--	--	--	0.012 --	-- 0.30	--
30S/27E-23D02 M											
06/12/74	5701		309	64 F 7.6	--	--	--	--	0.010 --	-- 0.30	--

TABLE E-3 (Continued)

## SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE	SAMP LAB	DEPTH	DJSC EC	TEMP PH	ALUMINUM	CONSTITUENTS IN ANTIMONY PERYLLIUM	IN MILLIGRAMS BISMUTH CORAL	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
			305/28E-05R01	M								
4/74	5701			68 F		--	--	--	0.004	--	--	
	5701		358	7.3	--	--	--	--	--	0.29	--	
			305/28E-05C01	M								
2/74	5701			68 F		--	--	--	0.020	--	--	
	5701		526	7.8	--	--	--	--	--	0.54	--	
			305/28E-05E01	M								
6/74	5701			67 F		--	--	--	0.007	--	--	
	5701		405	7.4	--	--	--	--	--	0.36	--	
			305/28E-05F01	M								
4/74	5701			56 F		--	--	--	0.006	--	--	
	5701		351	7.4	--	--	--	--	--	0.34	--	
			305/28E-05K01	M								
4/74	5701			68 F		--	--	--	0.010	--	--	
	5701		607	7.2	--	--	--	--	--	0.56	--	
			305/28E-05N01	M								
4/74	5701			68 F		--	--	--	0.004	--	--	
	5701		231	7.7	--	--	--	--	--	0.15	--	
			305/28E-06C02	M								
10/74	5701			68 F		--	--	--	0.012	--	--	
	5701		388	7.2	--	--	--	--	--	0.38	--	
			305/28E-06C03	M								
17/74	5701			67 F		--	--	--	0.008	--	--	
	5701		385	7.2	--	--	--	--	--	0.38	--	
			305/28E-06G02	M								
12/74	5701			66 F		--	--	--	0.008	--	--	
	5701		413	7.5	--	--	--	--	--	0.21	--	
			305/28E-06M01	M								
14/74	5701			67 F		--	--	--	0.006	--	--	
	5701		315	7.2	--	--	--	--	--	0.34	--	
			305/28E-07B01	M								
12/74	5701			68 F		--	--	--	0.014	--	--	
	5701		724	7.6	--	--	--	--	--	0.28	--	
			305/28E-07C01	M								
2/74	5701			68 F		--	--	--	0.007	--	--	
	5701		372	7.3	--	--	--	--	--	0.18	--	
			305/28E-07E01	M								
10/74	5701			67 F		--	--	--	0.013	--	--	
	5701		268	7.5	--	--	--	--	--	0.28	--	
			305/28E-08B01	M								
10/74	5701			70 F		--	--	--	0.014	--	--	
	5701		664	7.7	--	--	--	--	--	0.47	--	
			305/28E-08H02	M								
4/74	5701			71 F		--	--	--	0.004	--	--	
	5701		314	7.0	--	--	--	--	--	0.22	--	
			305/28E-18H01	M								
5/74	5701			70 F		--	--	--	0.007	--	--	
	5701		400	7.7	--	--	--	--	--	0.19	--	
			305/28E-18E01	M								
10/74	5701			67 F		--	--	--	0.010	--	--	
	5701		301	7.7	--	--	--	--	--	0.26	--	
			305/28E-18K01	M								
8/74	5701			68 F		--	--	--	0.013	--	--	
	5701		386	7.6	--	--	--	--	--	0.46	--	







LEGEND

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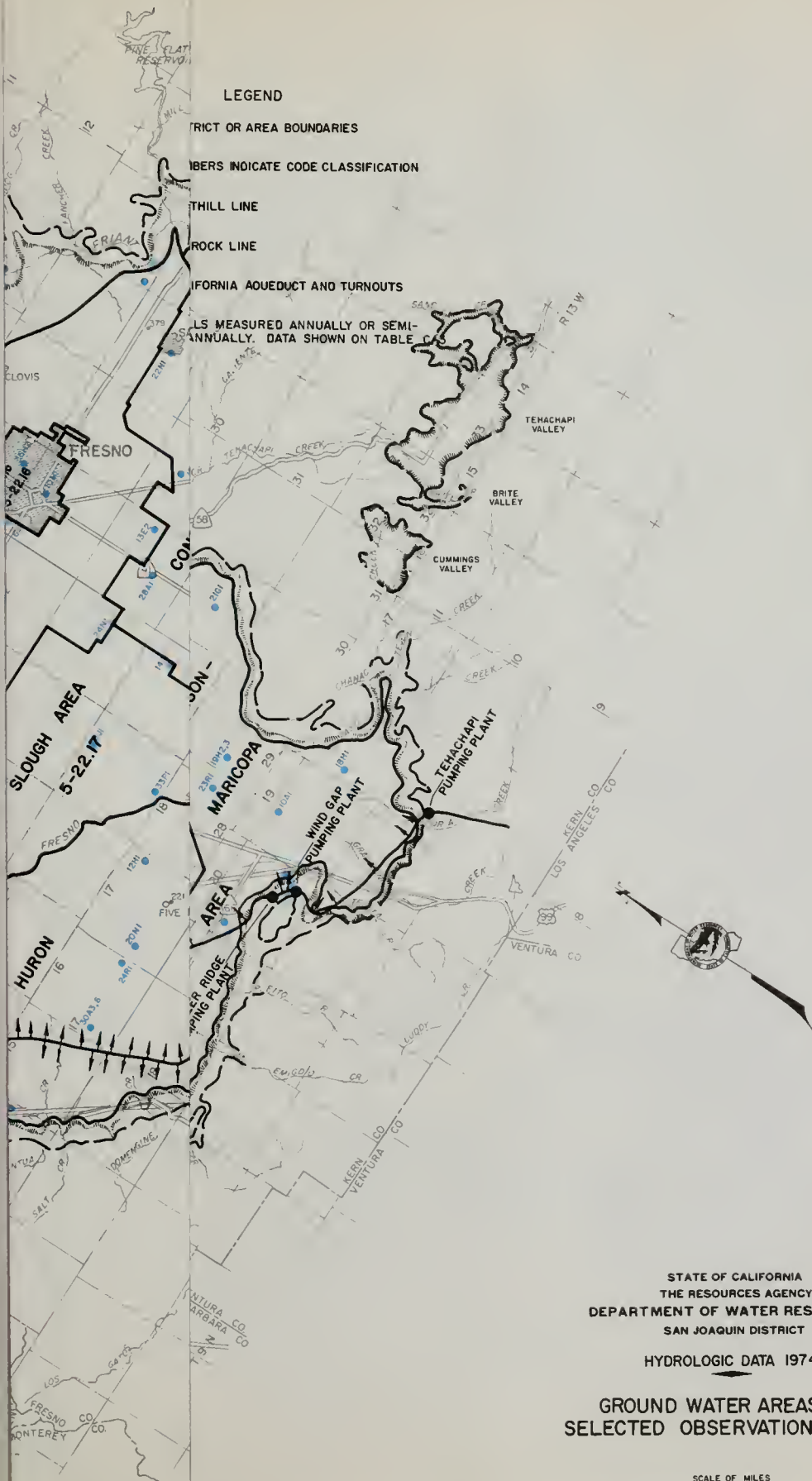
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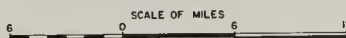
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STATE OF CALIFORNIA  
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DEPARTMENT OF WATER RESOURCES  
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1974

GROUND WATER AREAS AND  
SELECTED OBSERVATION WELLS





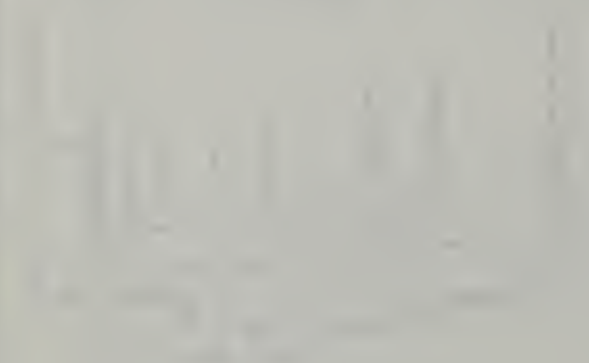


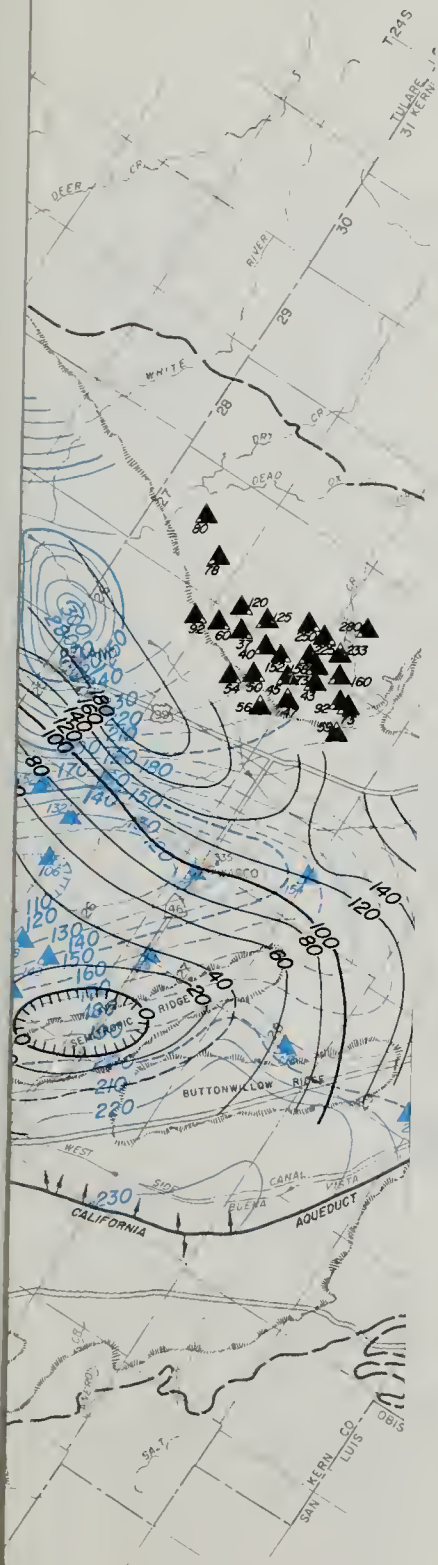
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- 5-22 00 NUMBERS INDICATE CODE CLASSIFICATION
- FOOTHILL LINE
- SEEP LINE
- CALIFORNIA AQUEDUCT AND TURNOUTS
- WELLS MEASURED ANNUALLY OR SEMI-ANNUALLY (DATA SHOWN ON TABLE)

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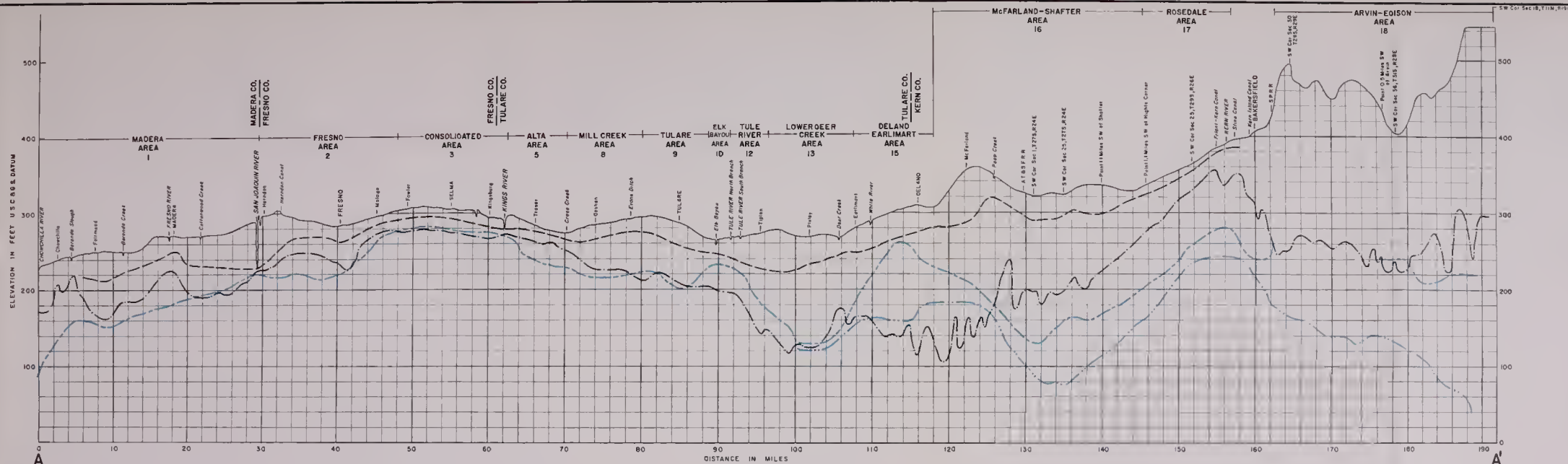
SCALE OF MILES





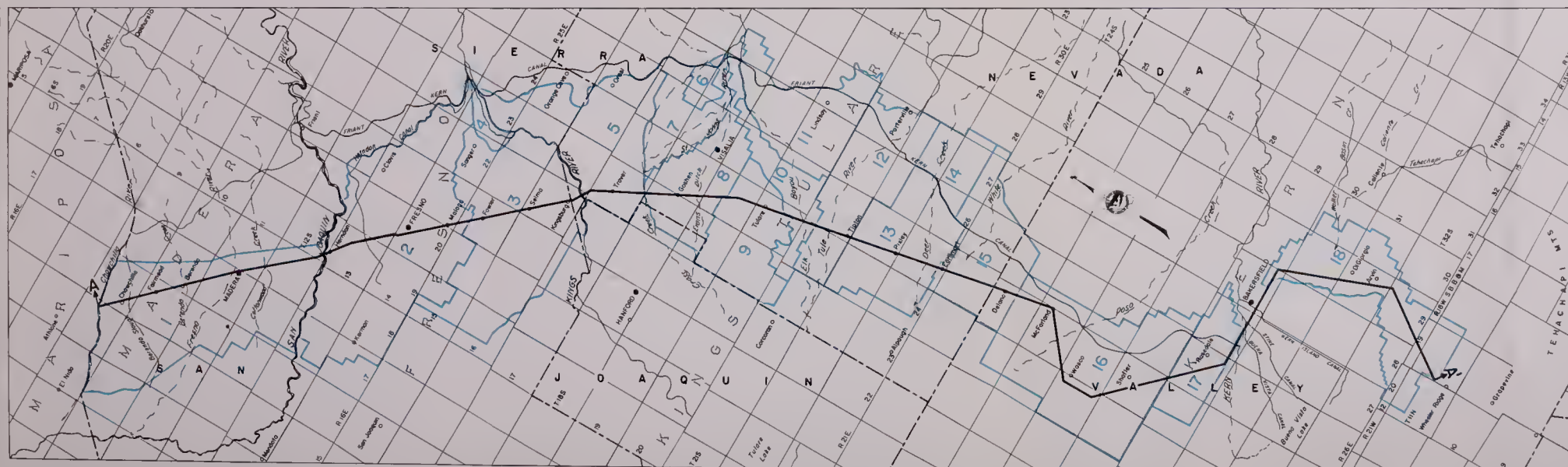
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Main body of handwritten text, consisting of several lines of cursive script. The text is extremely faded and difficult to decipher, but appears to be a continuous paragraph or list.



HISTORIC DATA PRESENTED  
IN FIGURE C-1 FOR FOLLOWING AREAS

- 1 MADERA
- 2 FRESNO
- 3 CONSOLIDATED
- 4 CENTERVILLE BOTTOMS
- 5 ALTA
- 6 IVANHOE
- 7 OUTSIDE IVANHOE
- 8 MILL CREEK
- 9 TULARE
- 10 ELK BAYOU
- 11 LINGSAY-EXETER
- 12 TULE RIVER
- 13 LOWER DEER CREEK
- 14 MIDDLE DEER CREEK
- 15 DELANO-EARLIMART
- 16 McFARLAND-SHAFTER
- 17 ROSEDALE
- 18 ARVIN-EDISON



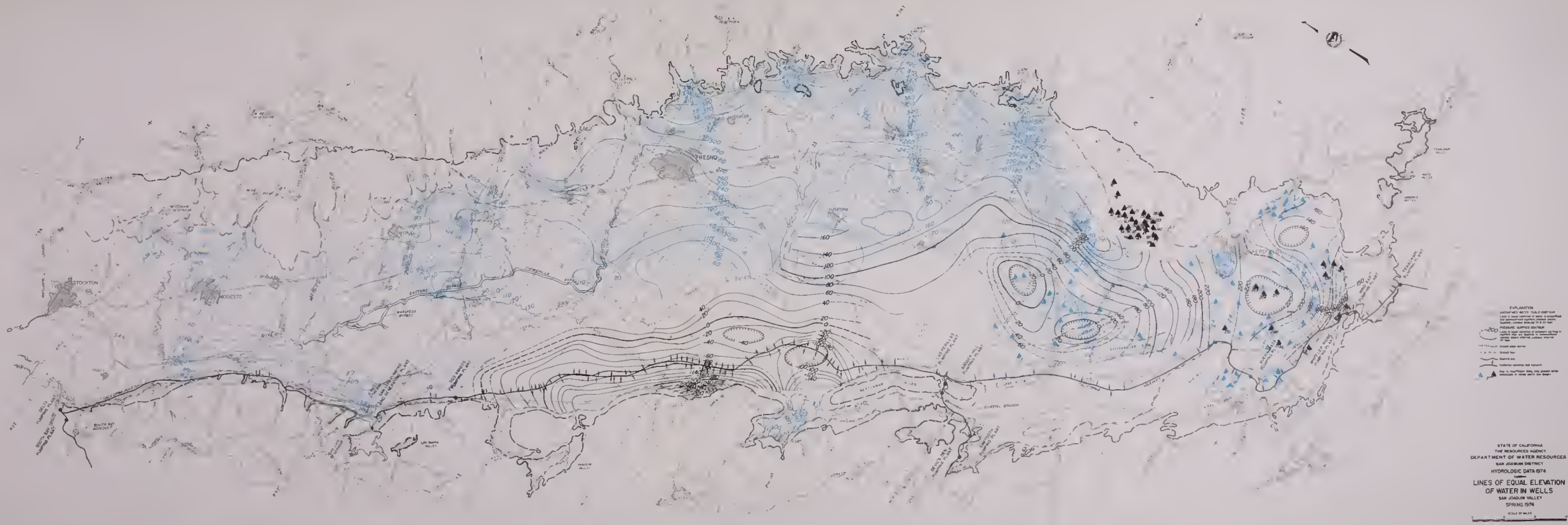
- LEGEND
- GROUND WATER AREA BOUNDARIES
  - GROUND WATER LEVEL FALL 1921
  - GROUND WATER LEVEL FALL 1951
  - GROUND WATER LEVEL SPRING 1974, UNCONFINED AQUIFER
  - GROUND WATER LEVEL SPRING 1974, PRESSURE SURFACE
  - GROUND WATER LEVEL PROFILE SECTION

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DEPARTMENT OF WATER RESOURCES  
SAN JOAQUIN DISTRICT  
HYDROLOGIC DATA 1974

MAP OF SELECTED GROUND WATER AREAS  
IN THE SAN JOAQUIN VALLEY  
AND  
PROFILES ALONG SECTION A-A' SHOWING  
GROUND WATER LEVELS IN 1921, 1951 & 1974

SCALE OF MILES  
0 10 20



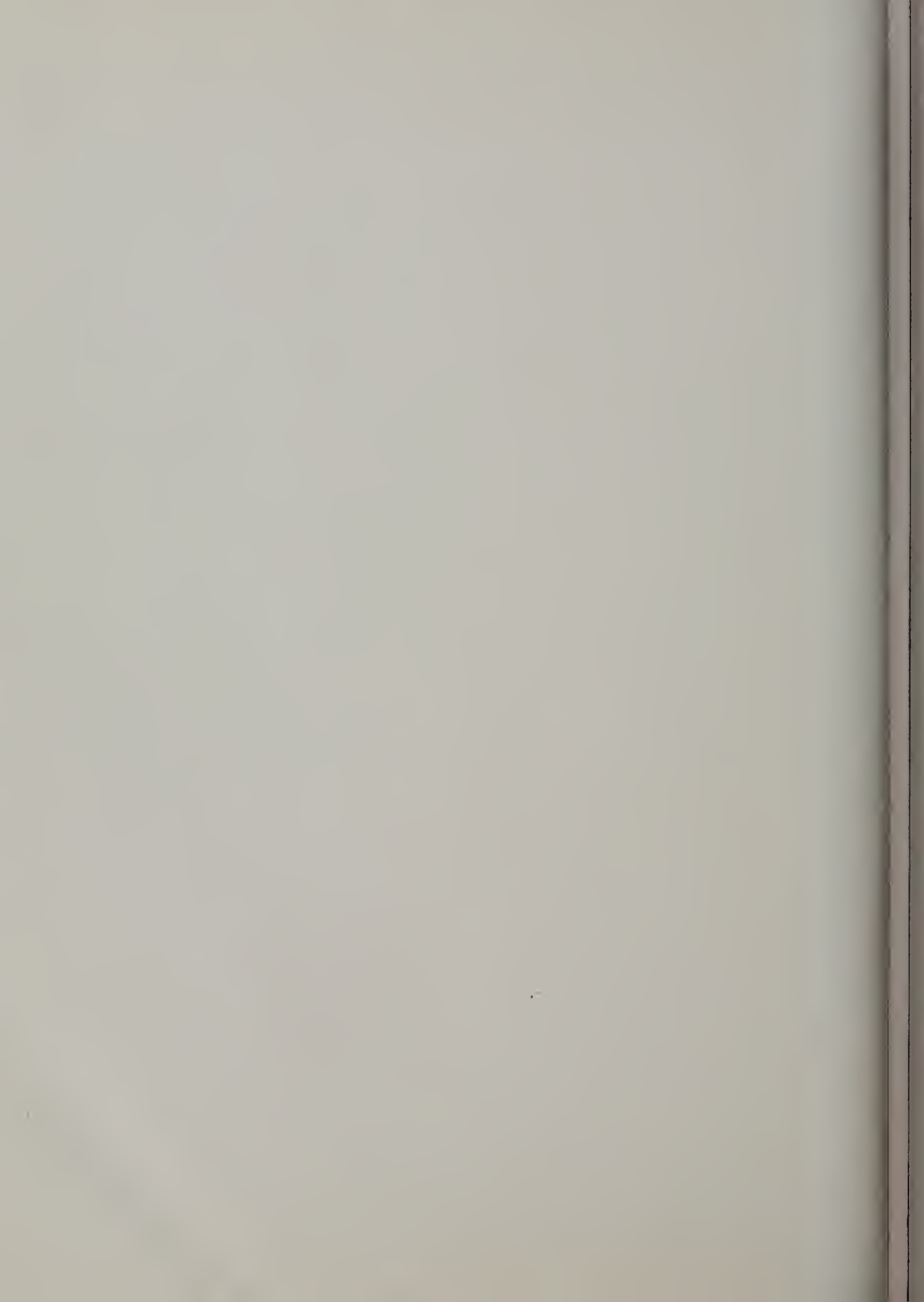






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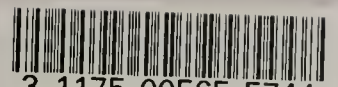
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